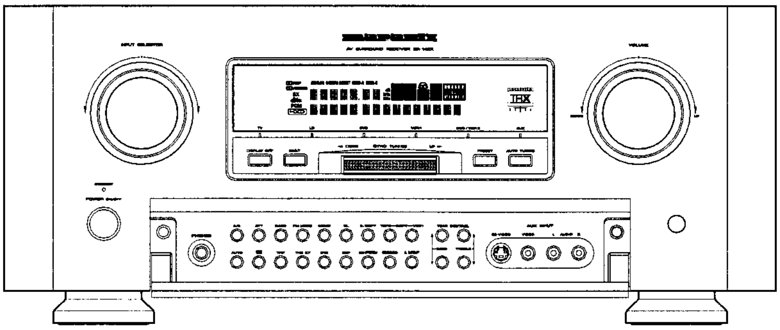
Service Manual

SR14A /N1G, /S1G, /U1G, /U1B
SR18A /K1G, /S1G, /U1G, /U1B
SR17A /F1N
AV Surround Receiver



SR-14EX/SR-14mkII
SR-17EX/SR-18EX

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Please use this service manual with referring to the user guide (D.F.U.) without fail.

marantz®

SR-14EX/SR-14mkII
SR-17EX/SR-18EX

Printed in Japan

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First Issue 2000.12

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.

Parts for your **MARANTZ** equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS :

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order :

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature : any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

USA
MARANTZ AMERICA, INC.
440 MEDINAH ROAD
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PHONE : 630 - 307 - 3100
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MALAYSIA
WO KEE HONG ELECTRONICS SDN. BHD.
SUITE 8.1, LEVEL 8, MENARA GENESIS,
NO. 33, JALAN SULTAN ISMAIL,
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PHONE : +60 3 - 2457677
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東京都渋谷区恵比寿南1-11-9

KOREA
MK ENTERPRISES LTD.
ROOM 604/605, ELECTRO-OFFICETEL, 16-58,
3GA, HANGANG-RO, YONGSAN-KU, SEOUL
KOREA
PHONE : +822 - 3232 - 155
FAX : +822 - 3232 - 154

SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard No. 1492.

In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

1. TECHNICAL SPECIFICATIONS

FM TUNER SECTION

Frequency Range	87.5 – 108.0 MHz (K, N, S, U version)
	76.0 – 90.0 MHz (F version)
Usable Sensitivity	IHF 1.8 μV / 16.4 dBf
Signal to Noise Ratio	Mono / Stereo 76 / 72 dB
Distortion	Mono / Stereo 0.2 / 0.3 %
Stereo Separation	1 kHz 45 dB
Alternate Channel Selectivity	±400 kHz 60 dB (F, U version)
	±300 kHz 60 dB (K, N, S version)
Image Rejection	98 MHz 70 dB
Tuner Output Level	1 kHz, 75 kHz Dev 800 mV (F, U version)
	1 kHz, 40 kHz Dev 800 mV (K, N, S version)

AM/LW TUNER SECTION

Frequency Range	AM(MW) : 520 – 1710 kHz (U version)
	531 – 1602 or 520 – 1710 kHz (K version)
	531 – 1602 kHz (F, N, S version)
	LW : 152 – 282 kHz (N version)
Signal to Noise Ratio	50 dB
Usable Sensitivity	Loop 400 μV
Distortion	400 Hz, 30 % Mod. 0.5 %
Selectivity	±20 kHz 70 dB (U version)
	±18 kHz 70 dB (K, N, S version)

AUDIO SECTION

Rated Power	
FRONT (20 Hz – 20 kHz)	8 ohms 140W / Ch
Center (20 Hz – 20 kHz)	8 ohms 140W / Ch
Surround (20 Hz – 20 kHz)	8 ohms 140W / Ch
THD Front (20 Hz – 20 kHz)	8 ohms 0.05%
Input Sensitivity / Impedance	
Linear	350 mV / 47 kohms
Signal to Noise Rate (IHF A)	
Linear	106 dB
Frequency Response	
(Analog Input / Source Direct)	8 Hz - 80 kHz (±3 dB)
(Digital Input / 96 kHz PCM)	8 Hz - 45 kHz (±3 dB)

VIDEO

Television Format	NTSC (F, U version)
	PAL/NTSC (K, N, S version)
Input Level / Impedance	1 Vp-p / 75 ohms
Output Level / Impedance	1 Vp-p / 75 ohms
Video Frequency Response	5 Hz to 8 MHz (- 1 dB)
S/N	60 dB

GENERAL

Power Requirement	AC 120V 60 Hz (U version)
	AC 220V 50 / 60 Hz (K version)
	AC 100V 50 / 60 Hz (F version)
	AC 230V 50 Hz (N, S version)
Power Consumption	530W
Dimension (MAX)	
Width	18 inches (458 mm)
Height	7-½ inches (190 mm)
Depth	19-½ inches (496 mm)
Weight (SR14A)	58.4 lds. (26.5 kg)
Weight (SR17A)	56.4 lds. (25.2 kg)
Weight (SR18A)	53.9 lds. (24.5 kg)

ACCESSORIES

Remote Control Unit	
RC5000i (SR14A)	1
RC-18SR (SR18A / SR17)	1

Dolby Digital(AC-3) SECTION

Output Level (Master Volume is set 0dB)

Front L / R, CENTER, SURROUND L/R	
1 kHz, 20 dB FS INPUT	0.24V
SUBWOOFER	
40 Hz, 0 dB FS INPUT	7.5V

Frequency Response

Front L / R, CENTER, SURROUND L / R (LARGE)	
20 Hz – 20 kHz	-0.5 dB

Total Harmonic Distortion

Front L / R, CENTER, SURROUND L / R and	
SBL / SB (1 kHz)	0.01% or less
SUBWOOFER (40 Hz)	0.07% or less
Signal to Noise Ratio (IHF-A)	80 dB
Channel Separation (1 kHz)	95 dB

Specifications subject to change without prior notice.

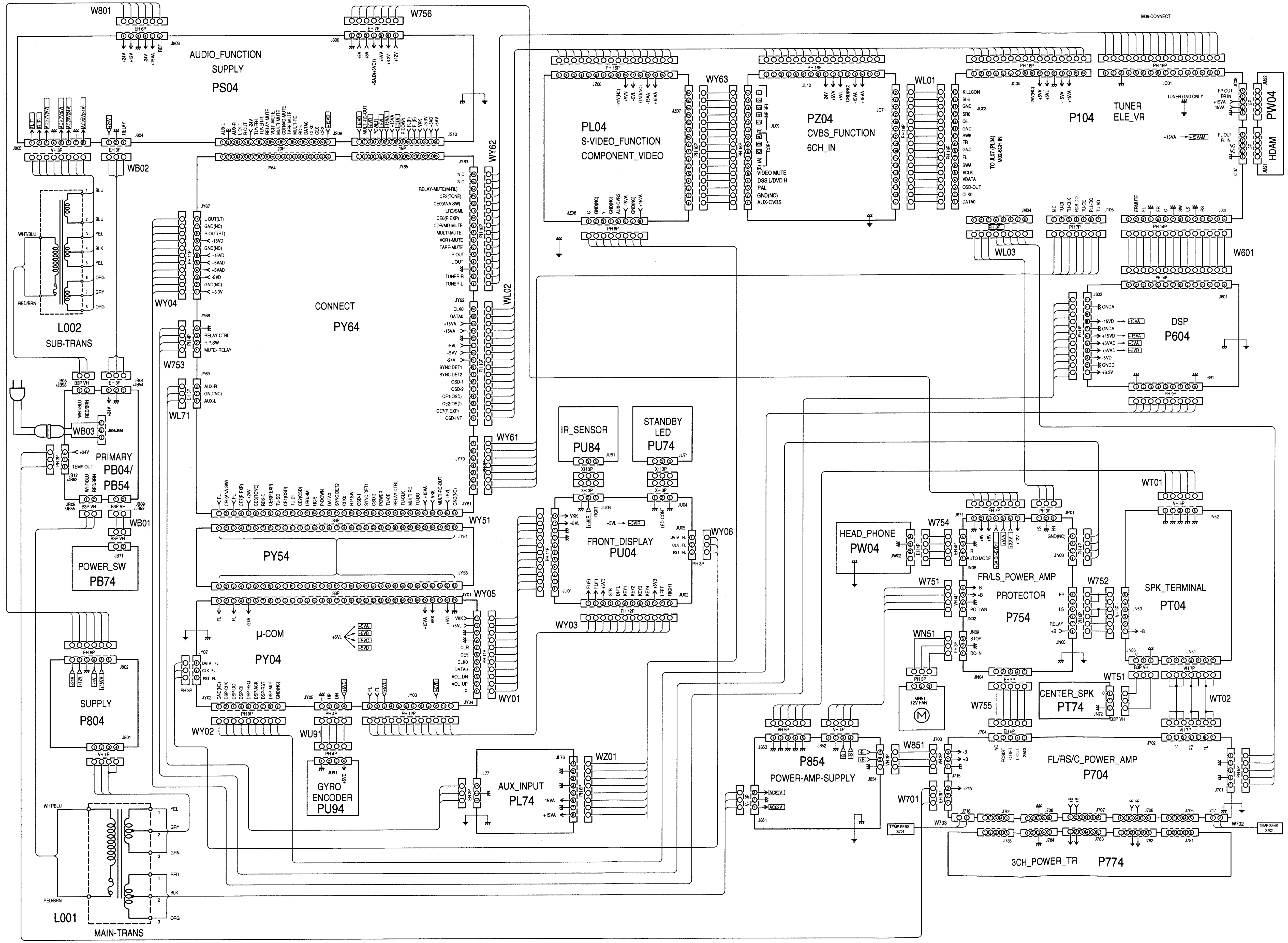
Remark : Bass signal output from Sub Woofer terminal for SR-14EX/SR-14mkII/SR-17EX/SR18-EX.

Sub woofer output is not active while all surround modes. Please refer to the following table.

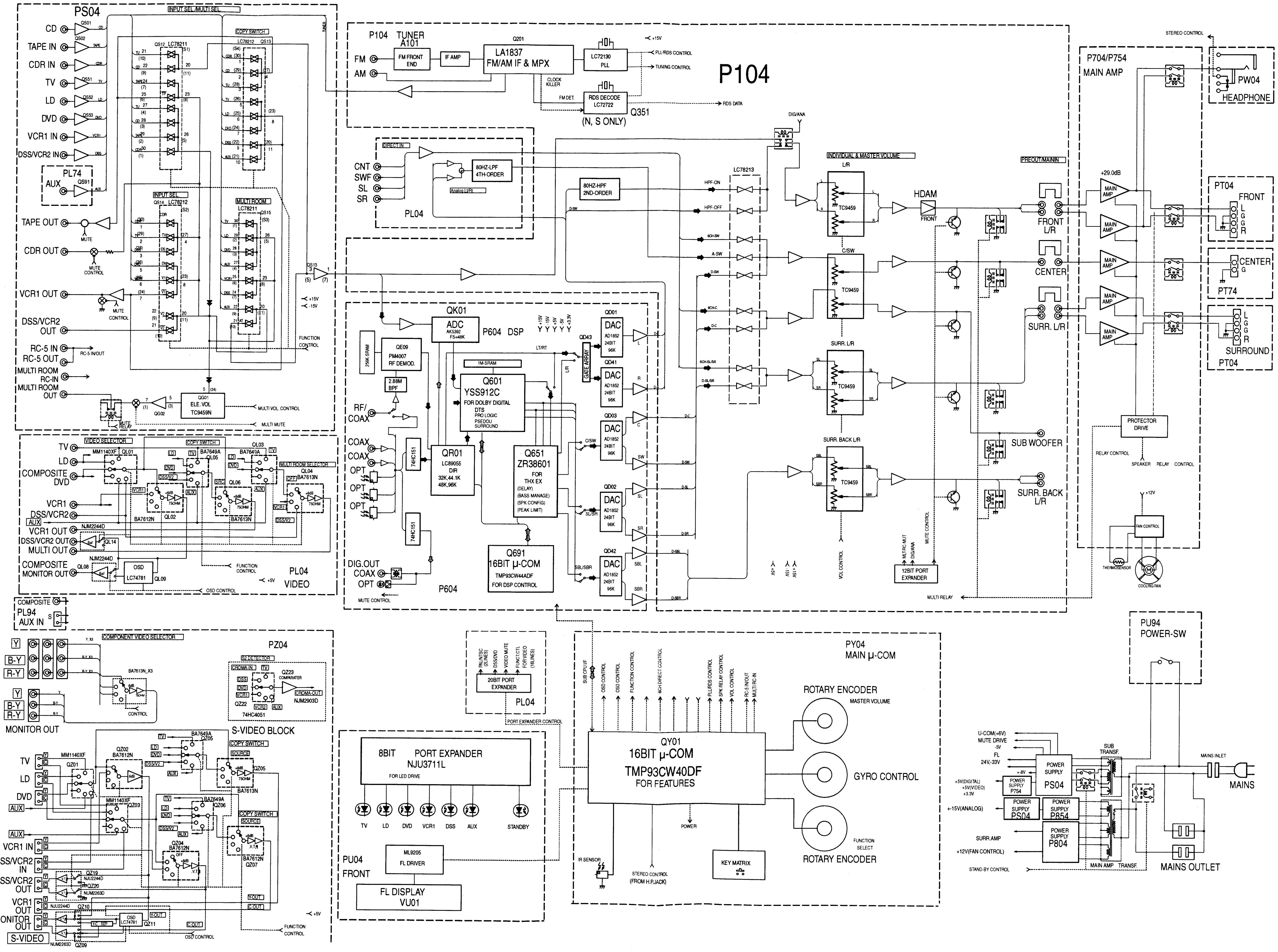
SPK SETUP for SR-14EX/SR-14mkII/SR-17EX/SR18-EX

SPK setup					ZR38601	SubWoofer Output by Surround mode							
									AUTO (PCM,Ana)				
Sub Woofer	Front	Center	Surr. L/R	Surr.B (L/R)	Bass CFG #	THX Surr EX	THX5.1, Dolby-D, DTS	THX4.0, Pro Logic	Stereo	AUTO(AC-3,DTS)	(AC-3:2ch,karaoke)	NOTES	No.
ON	Large	Large	Large	Large	1	LFE	LFE	none	L+R	LFE	L+R		1
				Small	14	LFE+Sb	LFE						
			Small	Large	3	LFE+SL+SR	LFE+SL+SR	none	L+R	LFE+SL+SR	L+R		2
				Small	16	LFE+SL+SR+Sb	LFE+SL+SR						
			None	(prohibit)	1	LFE	LFE	none	L+R	LFE	L+R		3
		Small	Large	Large	5	LFE+C	LFE+C	C	L+R	LFE+C	L+R		4
				Small	18	LFE+C+Sb	LFE+C						
			Small	Large	8	LFE+C+SL+SR	LFE+C+SL+SR	C	L+R	LFE+C+SL+SR	L+R		5
				Small	21	LFE+C+SL+SR+Sb	LFE+C+SL+SR						
			None	(prohibit)	5	LFE+C	LFE+C	C	L+R	LFE+C	L+R		6
		None	Large	Large	1	LFE	LFE	none	L+R	LFE	L+R		7
				Small	14	LFE+Sb	LFE						
			Small	Large	3	LFE+SL+SR	LFE+SL+SR	none	L+R	LFE+SL+SR	L+R		8
				Small	16	LFE+SL+SR+Sb	LFE+SL+SR						
			None	(prohibit)	1	LFE	LFE	none	L+R	LFE	L+R		9
	Small	Large	Large	Large	12	LFE+L+R	LFE+L+R	L+R	L+R	LFE+L+R	L+R		10
				Small	25	LFE+L+R+Sb	LFE+L+R						
			Small	Large	11	LFE+L+R+SL+SR	LFE+L+R+SL+SR	L+R	L+R	LFE+L+R+SL+SR	L+R		11
				Small	24	LFE+L+R+SL+SR+Sb	LFE+L+R+SL+SR						
			None	(prohibit)	12	LFE+L+R	LFE+L+R	L+R	L+R	LFE+L+R	L+R		12
		Small	Large	Large	10	LFE+L+R+C	LFE+L+R+C	L+R+C	L+R	LFE+L+R+C	L+R		13
				Small	23	LFE+L+R+C+Sb							
			Small	Large	0	LFE+L+R+C+SL+SR	LFE+L+R+C+SL+SR	L+R+C	L+R	LFE+L+R+C+SL+SR	L+R		14
				Small	13	LFE+L+R+C+SL+SR+Sb							
			None	(prohibit)	10	LFE+L+R+C	LFE+L+R+C	L+R+C	L+R	LFE+L+R+C	L+R		15
		None	Large	Large	12	LFE+L+R	LFE+L+R	L+R	L+R	LFE+L+R	L+R		16
				Small	25	LFE+L+R+Sb							
			Small	Large	11	LFE+SL+SR	LFE+SL+SR	L+R	L+R	LFE+SL+SR	L+R		17
				Small	24	LFE+SL+SR+Sb							
			None	(prohibit)	12	LFE+L+R	LFE+L+R	L+R	L+R	LFE+L+R	L+R		18
OFF						No output to subW							

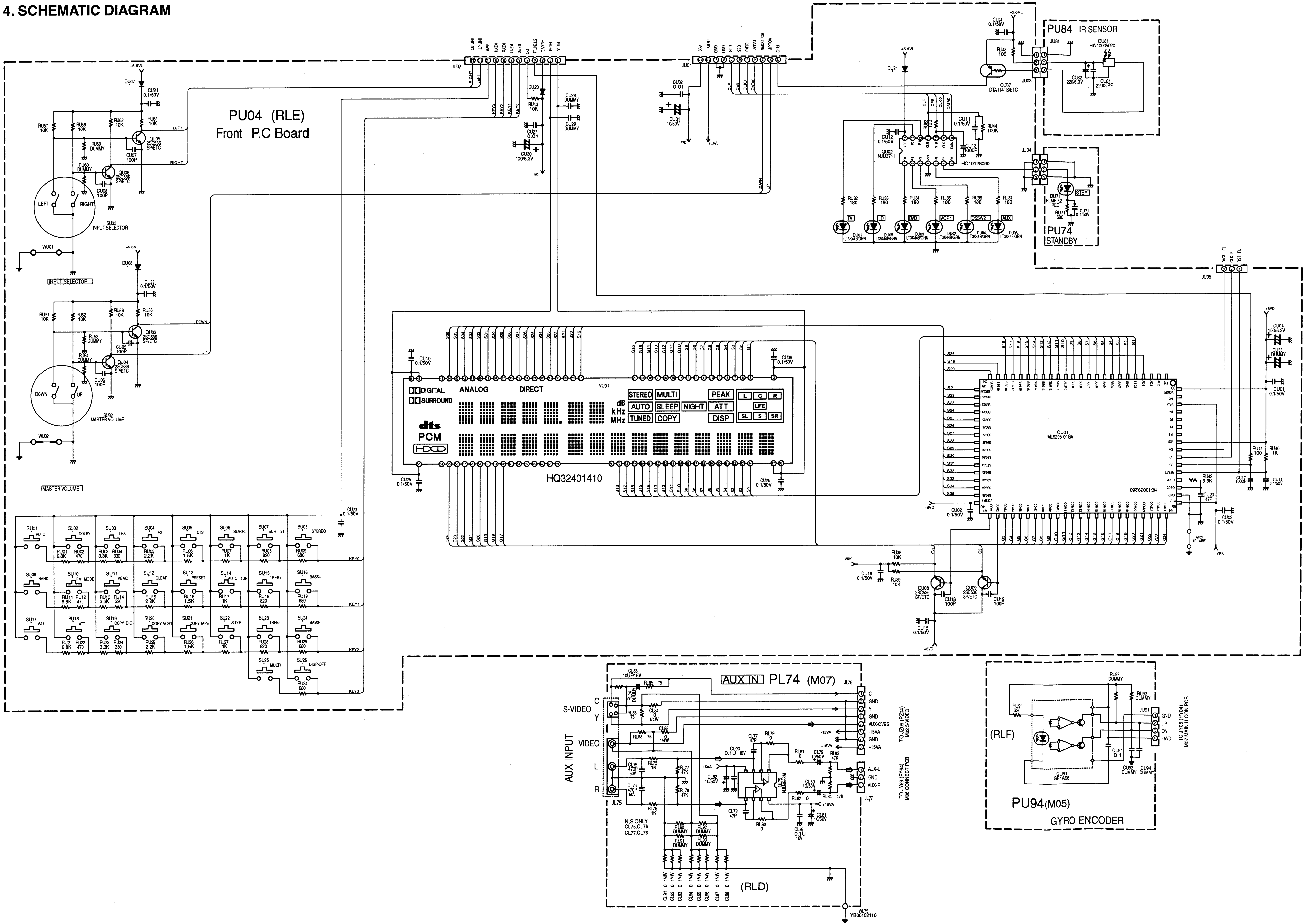
2. WIRING DIAGRAM

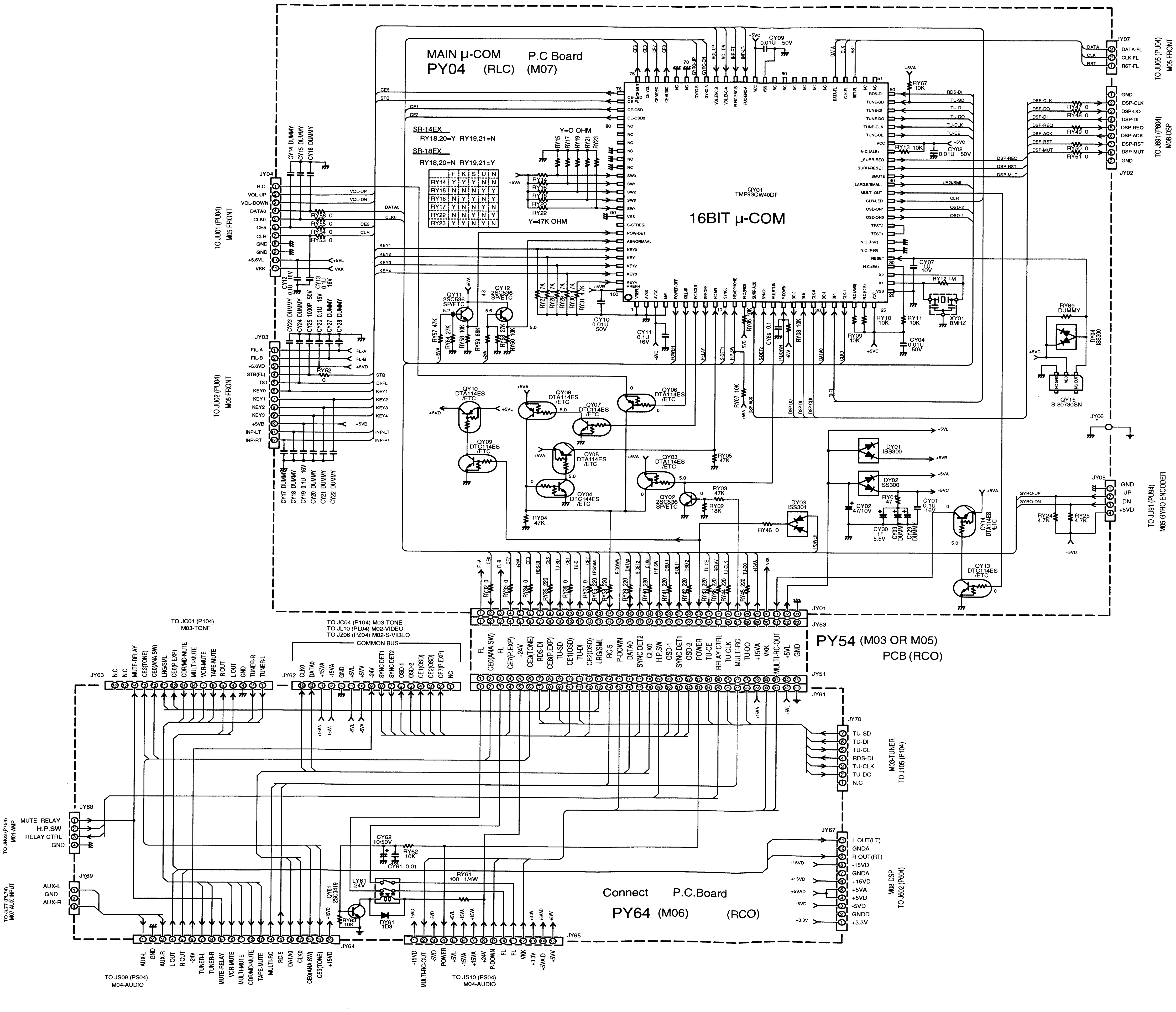

W801
W756
AUDIO_FUNCTION
SUPPLY
PS04
WB02
L002
SUB-TRANS
WB03
PRIMARY
PB04/
PB54
WB01
POWER_SW
PB74
SUPPLY
P804
L001
MAIN-TRANS
WY04
W753
WL71
CONNECT
PY64
WY62
WL02
WY61
WY51
PY54
WY05
μ-COM
PY04
WY01
WY02
WU91
GYRO
ENCODER
PU94
PL04
S-VIDEO_FUNCTION
COMPONENT_VIDEO
WY63
PZ04
CVBS_FUNCTION
6CH_IN
WL01
P104
TUNER
ELE_VR
PW04
HDAM
M06-CONNECT
WL03
W601
DSP
P604
IR_SENSOR
PU84
STANDBY
LED
PU74
FRONT_DISPLAY
PU04
WY06
WY03
AUX_INPUT
PL74
WZ01
HEAD_PHONE
PW04
W754
W751
FR/LS_POWER_AMP
PROTECTOR
P754
W752
SPK_TERMINAL
PT04
WT01
WN51
W755
CENTER_SPK
PT74
WT51
WT02
P854
POWER-AMP-SUPPLY
W851
W701
FL/RS/C_POWER_AMP
P704
W703
W702
3CH_POWER_TR
P774
TEMP SENS S701
TEMP SENS S702

3. BLOCK DIAGRAM

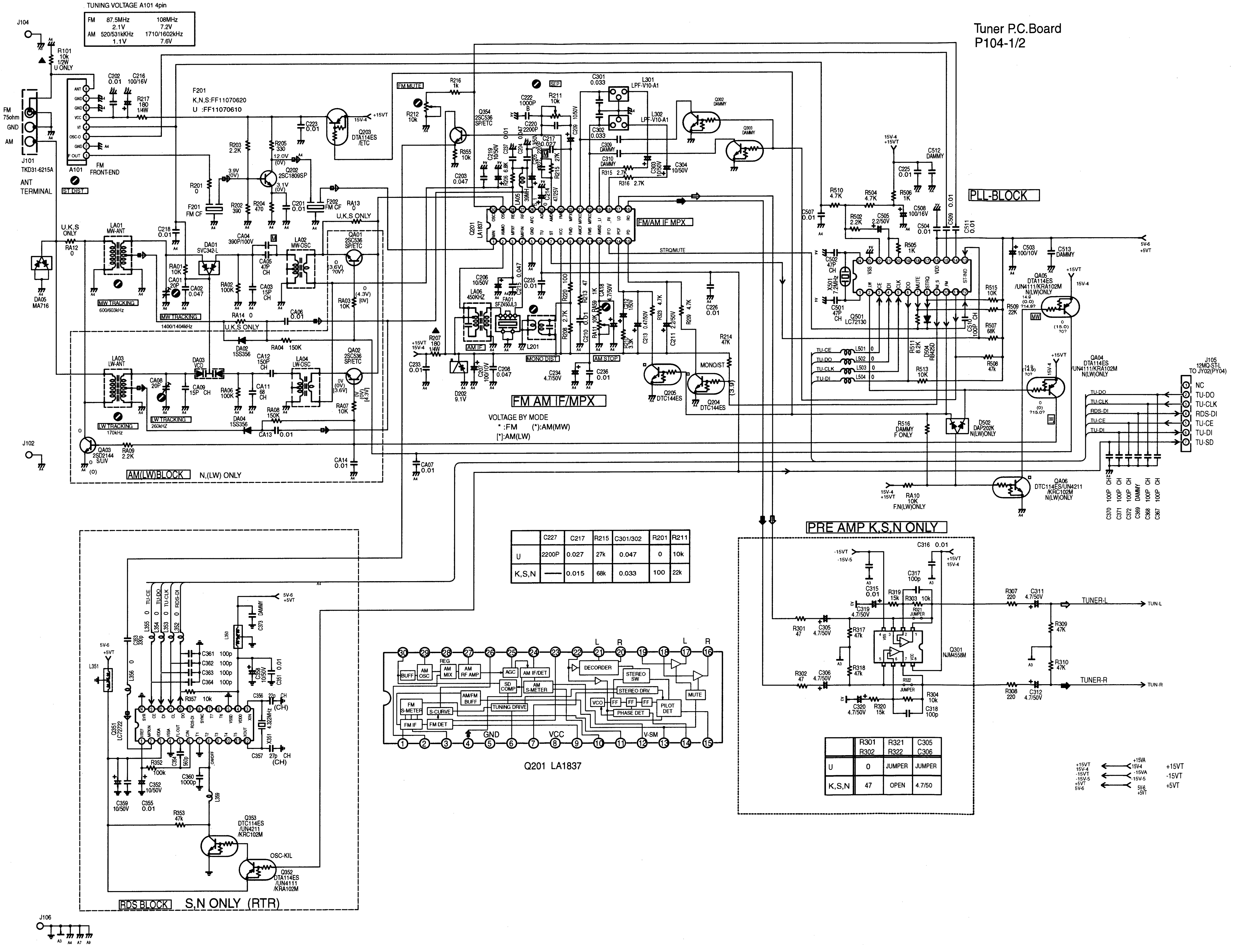

PS04
INPUT SEL./MULTI SEL.
CD
TAPE IN
CDR IN
TV
LD
DVD
VCR1 IN
DSS/VCR2 IN
PL74
AUX
TAPE OUT
CDR OUT
VCR1 OUT
DSS/VCR2 OUT
RC-5 IN
RC-5 OUT
MULTI ROOM RC-IN
MULTI ROOM OUT
LC78211
LC78212
COPY SWITCH
INPUT SEL
MULTI ROOM
MUTE
MUTE CONTROL
ELE. VOL TC9459N
MULTI VOL. CONTROL
MULTI MUTE
FUNCTION CONTROL
P104 TUNER A101
FM
AM
FM FRONT END
IF AMP
LA1837 FM/AM IF & MPX
LC72130 PLL
PLL/RDS CONTROL
TUNING CONTROL
CLOCK KILLER
RDS DECODE LC72722
Q351
(N, S ONLY)
RDS DATA
P104
DIRECT IN
CNT
SWF
SL
SR
80HZ-LPF 4TH-ORDER
80HZ-HPF 2ND-ORDER
PL04
DIG/ANA
LC78213
INDIVIDUAL & MASTER VOLUME
TC9459
HDAM
FRONT
FRONT L/R
CENTER
SURR. L/R
SUB WOOFER
SURR. BACK L/R
PREOUT/MAININ
QK01
ADC AK5392
P604 DSP
QE09 PM4007 RF DEMOD.
2.88M BPF
256K SRAM
1M-SRAM
Q601 YSS912C
FOR DOLBY DIGITAL DTS PRO LOGIC PSEDOU SURROUND
QR01 LC89055 DIR 32K,44.1K 48K,96K
Q651 ZR38601 FOR THX EX (DELAY) (BASS MANAGE) (SPK CONFIG) (PEAK LIMIT)
Q691 16BIT µ-COM TMP93CW44ADF FOR DSP CONTROL
GATE ARRAY
DAC AD1852 24BIT 96K
RF/COAX
COAX
OPT
DIG.OUT COAX
74HC151
MUTE CONTROL
P604
12BIT PORT EXPANDER
MULTI RELAY
VOL CONTROL
P704/P754 MAIN AMP
+29.0dB
MAIN AMP
PROTECTOR DRIVE
RELAY CONTROL
SPEAKER RELAY CONTROL
FAN CONTROL
THERMOSENSOR
COOLING FAN
STEREO CONTROL
PW04
HEADPHONE
PT04
FRONT
CENTER
PT74
SURROUND
VIDEO SELECTOR
MM1140XF
BA7649A
BA7612N
BA7613N
MULTI ROOM SELECTOR
COMPOSITE
VCR1
DSS/VCR2
AUX
VCR1 OUT
DSS/VCR2 OUT
MULTI OUT
COMPOSITE MONITOR OUT
NJM2244D
OSD LC74781
OSD CONTROL
PL04 VIDEO
PL94 AUX IN
COMPONENT VIDEO SELECTOR
BA7613N_X3
Y
B-Y
R-Y
MONITOR OUT
PZ04
S2 DETECTOR
74HC4051
NJM2903D
S-VIDEO BLOCK
VCR1 IN
DSS/VCR2 IN
DSS/VCR2 OUT
VCR1 OUT
MONITOR OUT
S-VIDEO
20BIT PORT EXPANDER
PORT EXPANDER CONTROL
8BIT PORT EXPANDER NJU3711L
FOR LED DRIVE
TV
LD
DVD
VCR1
DSS
AUX
STANDBY
PU04 FRONT
ML9205 FL DRIVER
FL DISPLAY VU01
PY04 MAIN µ-COM
QY01 16BIT µ-COM TMP93CW40DF FOR FEATURES
ROTARY ENCODER
MASTER VOLUME
GYRO CONTROL
FUNCTION SELECT
KEY MATRIX
IR SENSOR
STEREO CONTROL (FROM H.P.JACK)
POWER
PU94 POWER-SW
SUB TRANSF.
MAINS INLET
MAINS
POWER SUPPLY PS04
POWER SUPPLY P754
POWER SUPPLY P854
POWER SUPPLY P804
MAIN AMP TRANSF.
MAINS OUTLET
U-COM(+6V)
MUTE DRIVE
-5V
FL
24V,-33V
+5V(DIGITAL) +5V(VIDEO) +3.3V
+-15V(ANALOG)
SURR AMP
+12V(FAN CONTROL)
STAND-BY CONTROL

4. SCHEMATIC DIAGRAM


PU04 (RLE)
Front P.C Board
PU84 IR SENSOR
PU74
STANDBY
SU33
INPUT SELECTOR
SU02
MASTER VOLUME
INPUT SELECTOR
MASTER VOLUME
HQ32401410
QU01
ML9205-01GA
QU02
NJU3711
HC10128090
DIGITAL
SURROUND
ANALOG
DIRECT
PCM
STEREO
MULTI
AUTO
SLEEP
NIGHT
TUNED
COPY
PEAK
ATT
DISP
dB
kHz
MHz
LFE
AUX IN
PL74 (M07)
S-VIDEO
AUX INPUT
VIDEO
(RLD)
(RLF)
PU94(M05)
GYRO ENCODER
TO JZ08 (PY04) M02 S-VIDEO
TO JY69 (PY64) M06 CONNECT PCB
TO JY05 (PY04) M07 MAIN U-CON PCB
N.S ONLY CL75,CL76 CL77,CL78
WL75
YB00152110


MAIN µ-COM P.C Board
PY04 (RLC) (M07)
16BIT µ-COM
QY01 TMP93CW40DF
SR-14EX
RY18,20=Y RY19,21=N
SR-18EX
RY18,20=N RY19,21=Y
Y=O OHM
Y=47K OHM
XY01 8MHZ
QY15 S-80730SN
DY04 ISS300
DY01 ISS300
DY02 ISS300
DY03 ISS301
QY02 2SC536 SP/ETC
QY03 DTA114ES /ETC
QY04 DTC144ES /ETC
QY05 DTA114ES /ETC
QY06 DTA114ES /ETC
QY07 DTC114ES /ETC
QY08 DTA114ES /ETC
QY09 DTC114ES /ETC
QY10 DTA114ES /ETC
QY11 2SC536 SP/ETC
QY12 2SC536 SP/ETC
QY13 DTC114ES /ETC
QY14 DTA114ES /ETC
JY07
TO JU05 (PU04) M05 FRONT
DATA-FL
CLK-FL
RST-FL
JY02
TO J691 (P604) M08-DSP
GND
DSP-CLK
DSP-DO
DSP-DI
DSP-REQ
DSP-ACK
DSP-RST
DSP-MUT
JY04
TO JU01 (PU04) M05 FRONT
R.C
VOL-UP
VOL-DOWN
DATA0
CLK0
CE5
CLR
GND
+5.6VL
VKK
JY03
TO JU02 (PU04) M05 FRONT
FIL-A
FIL-B
+5.6VD
STB(FL)
DO
KEY0
KEY1
KEY2
KEY3
+5VB
INP-LT
INP-RT
JY05
TO JU91 (PU94) M05 GYRO ENCODER
GND
UP
DN
+5VD
JY06
JY01
JY53
PY54 (M03 OR M05)
PCB (RCO)
JY51
JY61
FL
CE0(ANA SW)
CE7(P.EXP)
+24V
CE3(TONE)
RDS-DI
CE6(P.EXP)
TU SD
CE1(OSD)
TU-DI
CE2(OSD)
LRG/SML
RC-5
P-DOWN
DATA0
SYNC DET2
CLK0
H.P.SW
OSD-1
SYNC DET1
OSD-2
POWER
TU-CE
RELAY CTRL
TU-CLK
MULTI-RC
TU-DO
+15VA
VKK
MULTI-RC-OUT
+5VL
GND
TO JC01 (P104) M03-TONE
TO JC04 (P104) M03-TONE
TO JL10 (PL04) M02-VIDEO
TO JZ06 (PZ04) M02-S-VIDEO
COMMON BUS
JY63
N.C
MUTE-RELAY
CE3(TONE)
CE0(ANA SW)
LRG/SML
CE6(P.EXP)
CDR/MD-MUTE
MULTI-MUTE
VCR-MUTE
TAPE-MUTE
R OUT
L OUT
GND
TUNER-R
TUNER-L
JY62
CLK0
DATA0
+15VA
-15VA
GND
+5VL
+5VV
-24V
SYNC DET1
SYNC DET2
OSD-1
OSD-2
CE1(OSD)
CE2(OSD)
CE7(P.EXP)
NC
JY70
TU-SD
TU-DI
TU-CE
RDS-DI
TU-CLK
TU-DO
N.C
M03-TUNER TO J105 (P104)
JY68
TO JN03 (PT54) M01-AMP
MUTE- RELAY
H.P.SW
RELAY CTRL
GND
JY69
TO JL77 (PL74) M07 AUX INPUT
AUX-L
GND
AUX-R
JY67
L OUT(LT)
GNDA
R OUT(RT)
-15VD
GNDA
+15VD
+5VA
+5VD
-5VD
GNDD
+3.3V
M08-DSP TO J602 (P604)
CY62 10/50V
RY62 10K
CY61 0.01
LY61 24V
RY61 100 1/4W
QY61 2SC3419
DY61 1D3
RY63 10K
Connect P.C.Board
PY64 (M06) (RCO)
JY64
AUX-L
GND
AUX-R
L OUT
R OUT
-24V
TUNER-L
TUNER-R
MUTE-RELAY
VCR-MUTE
MULTI-MUTE
CDR/MD-MUTE
TAPE-MUTE
MULTI-RC
RC-5
DATA0
CLK0
CE0(ANA SW)
CE3(TONE)
+15VD
JY65
-15VD
MULTI-RC-OUT
-5VD
POWER
+5VL
-15VA
+15VA
+24V
P.DOWN
FL
FL
VKK
+3.3V
+5VA.D
+5VV
TO JS09 (PS04) M04-AUDIO
TO JS10 (PS04) M04-AUDIO

Tuner P.C.Board
P104-1/2

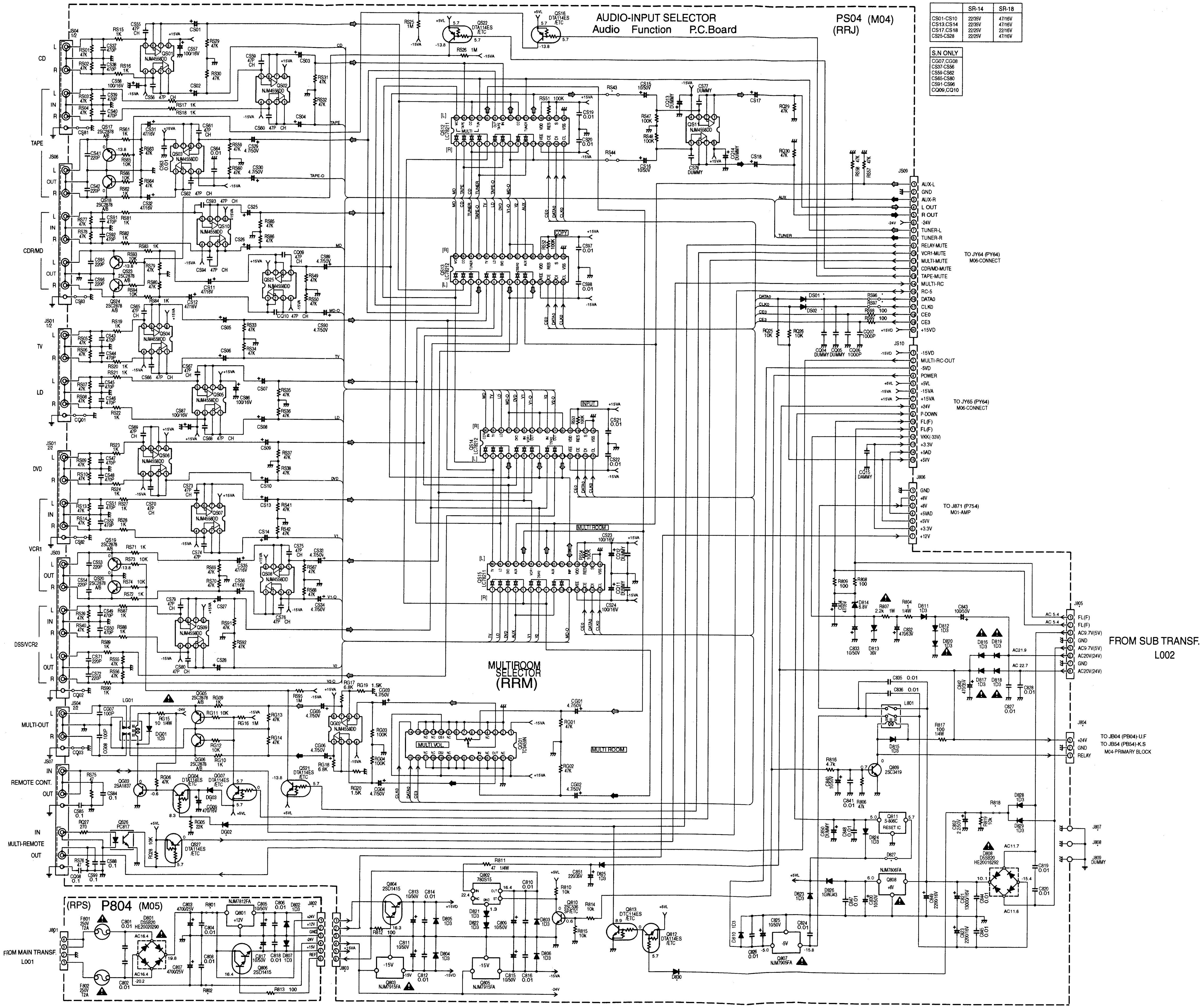

J104
R101 10k 1/2W U ONLY
FM 75ohm
GND
AM
J101 TKD31-6215A
ANT TERMINAL
A101 FM FRONT-END
ST DIST
F201 K,N,S:FF11070620 U :FF11070610
Q202 2SC1809SP
Q203 DTA114ES /ETC
F201 FM CF
F202 FM CF
U,K,S ONLY
LA01 MW-ANT
LA02 MW-OSC
MW TRACKING 600/603kHz
MW TRACKING 1400/1404kHz
DA01 SVC342-L
QA01 2SC536 SP/ETC
DA05 MA716
LA03 LW-ANT
LA04 LW-OSC
LW TRACKING 170kHz
LW TRACKING 260kHz
QA02 2SC536 SP/ETC
QA03 2SD2144 S/U/V
AM(LW)BLOCK N,(LW) ONLY
J102
FM MUTE
SEP
Q354 2SC536 SP/ETC
L301 LPF-V10-A1
L302 LPF-V10-A1
Q302 DAMMY
Q303 DAMMY
Q201 LA1837
FM/AM IF MPX
STRQ/MUTE
LA06 450KHZ
FA01 SFZ450J3
AM IF
MONO DIST
AM STOP
L201
D202 9.1V
Q205 DTC144ES
Q204 DTC144ES
MONO/ST
FM AM IF/MPX
VOLTAGE BY MODE
* :FM (*):AM(MW)
[*]:AM(LW)
PLL-BLOCK
Q501 LC72130
X501 7.2MHz
QA05 DTA114ES /UN4111/KRA102M N(LW)ONLY
QA04 DTA114ES /UN4111/KRA102M N(LW)ONLY
D502 DAP202K N(LW)ONLY
R516 DAMMY F ONLY
QA06 DTC114ES/UN4211 /KRC102M N(LW)ONLY
RA10 10K F,N(LW)ONLY
J105 12MQ-ST-L TO JY02(PY04)
NC
TU-DO
TU-CLK
RDS-DI
TU-CE
TU-DI
TU-SD
PRE AMP K,S,N ONLY
Q301 NJM4558M
TUNER-L
TUNER-R
TUN-L
TUN-R
Q351 LC7272
X351 4.332MHz
Q353 DTC114ES /UN4211 /KRC102M
Q352 DTA114ES /UN4111 /KRA102M
OSC-KIL
RDS BLOCK S,N ONLY (RTR)
J106
BUFF
AM OSC
REG
AM MIX
AM RF AMP
AGC
AM IF/DET
SD COMP
AM S-METER
DECORDER
STEREO SW
STEREO DRV.
VCO
FF
PILOT DET
PHASE DET
MUTE
AM/FM BUFF
TUNING DRIVE
FM S-METER
S-CURVE
FM IF
FM DET
GND
VCC
V-SM
L
R
Q201 LA1837
+15VT
15V-4
-15VT
-15V-5
+5VT
5V-6
+15VA
-15VA

TUNING VOLTAGE A101 4pin

FM	87.5MHz 2.1V	108MHz 7.2V
AM	520/531kKHz 1.1V	1710/1602kHz 7.6V

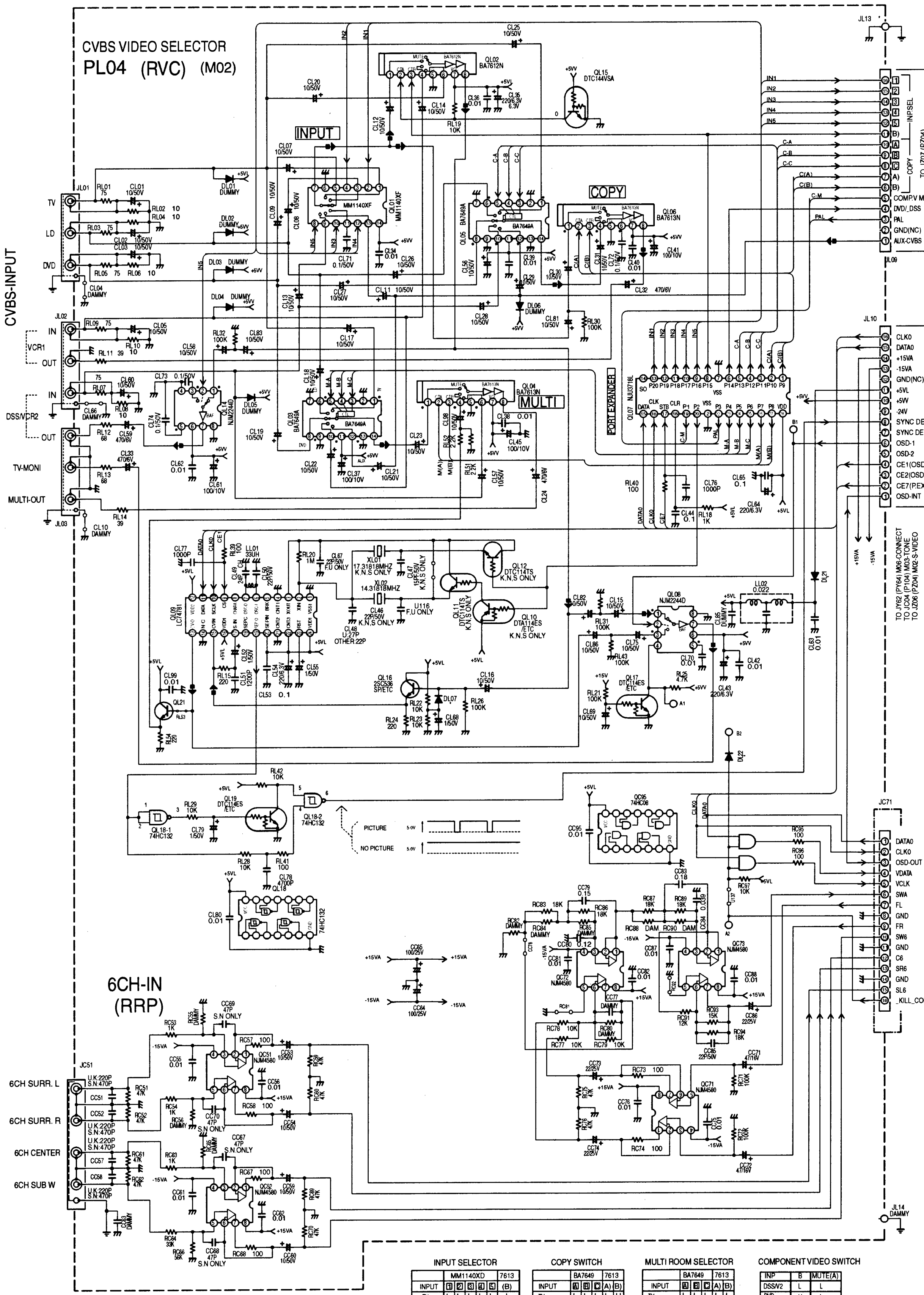
	C227	C217	R215	C301/302	R201	R211
U	2200P	0.027	27k	0.047	0	10k
K,S,N	——	0.015	68k	0.033	100	22k

	R301 R302	R321 R322	C305 C306
U	0	JUMPER	JUMPER
K,S,N	47	OPEN	4.7/50


AUDIO-INPUT SELECTOR
Audio Function P.C.Board
PS04 (M04)
(RRJ)
CD
TAPE
CDR/MD
TV
LD
DVD
VCR1
DSS/VCR2
MULTI-OUT
REMOTE CONT.
MULTI-REMOTE
IN
OUT
L
R
MULTIROOM
SELECTOR
(RRM)
INPUT
MULTI ROOM
MULTI VOL
JS09
AUX-L
GND
AUX-R
L OUT
R OUT
-24V
TUNER-L
TUNER-R
RELAY-MUTE
VCR1-MUTE
MULTI-MUTE
CDR/MD-MUTE
TAPE-MUTE
MULTI-RC
RC-5
DATA0
CLK0
CE0
CE3
+15VD
TO JY64 (PY64)
M06-CONNECT
JS10
-15VD
MULTI-RC-OUT
-5VD
POWER
+5VL
-15VA
+15VA
+24V
P-DOWN
FL(F)
FL(F)
VKK(-33V)
+3.3V
+5AD
+5VV
TO JY65 (PY64)
M06-CONNECT
J806
GND
+8V
+8V
+5VAD
+5VV
+3.3V
+12V
TO J871 (P754)
M01-AMP
J805
FL(F)
FL(F)
AC9.7V(5V)
GND
AC9.7V(5V)
AC20V(24V)
GND
AC20V(24V)
FROM SUB TRANSF.
L002
J804
+24V
GND
RELAY
TO JB04 (PB04)-U.F
TO JB54 (PB54)-K.S
M04-PRIMARY BLOCK
(RPS)
P804
(M05)
FROM MAIN TRANSF.
L001

	SR-14	SR-18
CS01-CS10	22/35V	47/16V
CS13.CS14	22/35V	47/16V
CS17.CS18	22/25V	22/16V
CS25-CS28	22/25V	47/16V

S,N ONLY
CG07,CG08
CS37-CS56
CS59-CS62
CS65-CS80
CS91-CS96
CQ09,CQ10


CVBS VIDEO SELECTOR
PL04 (RVC) (M02)
CVBS-INPUT
INPUT
COPY
MULTI
PORT EXPANDER
6CH-IN
(RRP)
6CH SURR. L
6CH SURR. R
6CH CENTER
6CH SUB W
COMMON BUS
TO JC03 (P104)

TO JY62 (PY64) M06-CONNECT
TO JC04 (P104) M03-TONE
TO JL10 (PL04) M02-VIDEO
TO JZ06 (PZ04) M02-S-VIDEO

INPUT SELECTOR

	MM1140XD					7613
INPUT	1	2	3	4	5	(B)
TV	L	L	L	L	L	L
LD	H	L	L	L	L	L
DVD	L	H	L	L	L	L
AUX	H	H	H	H	L	L
DSS/V2	L	L	L	L	H	L
VCR1	L	L	H	L	L	H
STANDBY	L	L	L	L	L	L

COPY SWITCH

	BA7649			7613	
INPUT	A	B	C	(A)	(B)
TV	L	L	L	L	H
LD	L	H	L	L	H
DVD	H	L	L	L	H
DSS/VCR2	H	H	L	L	H
AUX	H	H	H	L	H
SOURCE	H	H	H	L	L
SOURCE(VCR1)	H	H	H	H	H

MULTI ROOM SELECTOR

	BA7649			7613	
INPUT	A	B	C	(A)	(B)
TV	L	L	L	L	L
LD	L	H	L	L	L
DVD	L	L	H	L	L
AUX	H	H	H	L	L
VCR1	H	H	H	L	H
DSS/VCR2	H	H	H	H	L
MULTI-OFF	H	H	H	H	H

COMPONENT VIDEO SWITCH

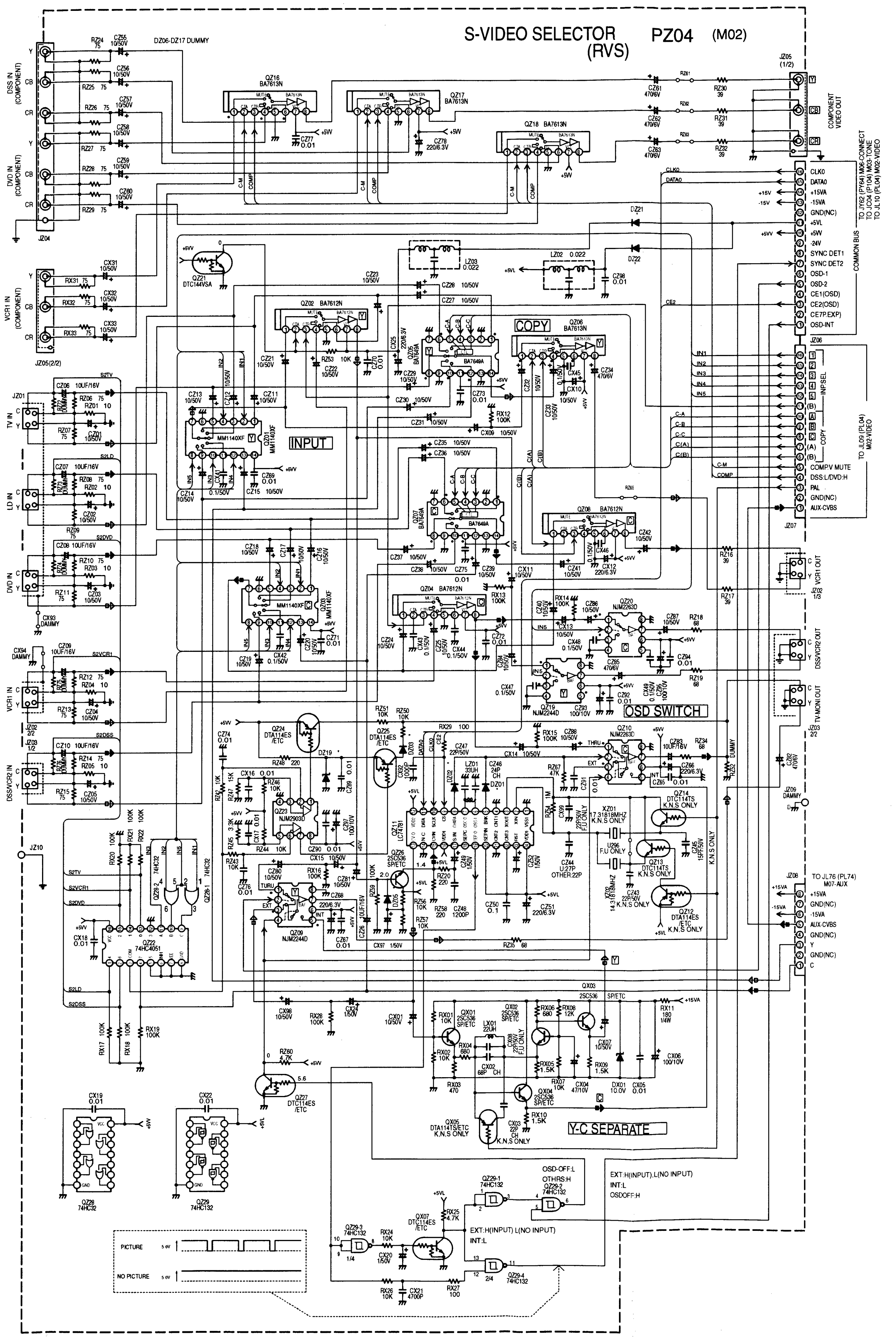
INP	B	MUTE(A)
DSS/V2	L	L
DVD	H	L
OTHERS	L	H

OTHERS:TV/VCR1/LD/AUX

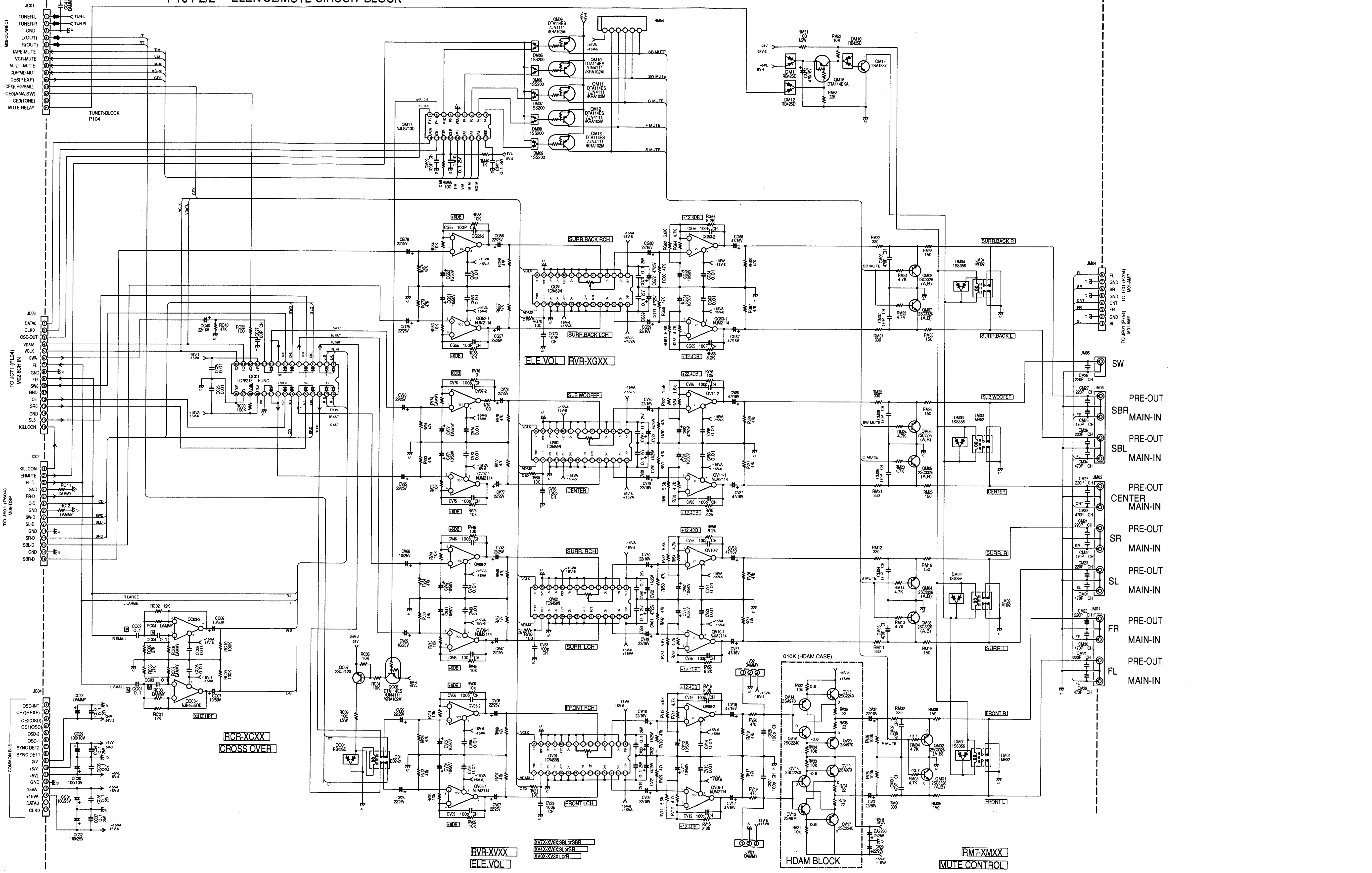
OSD SWITCH
(NJM2244D&NJM2263D)

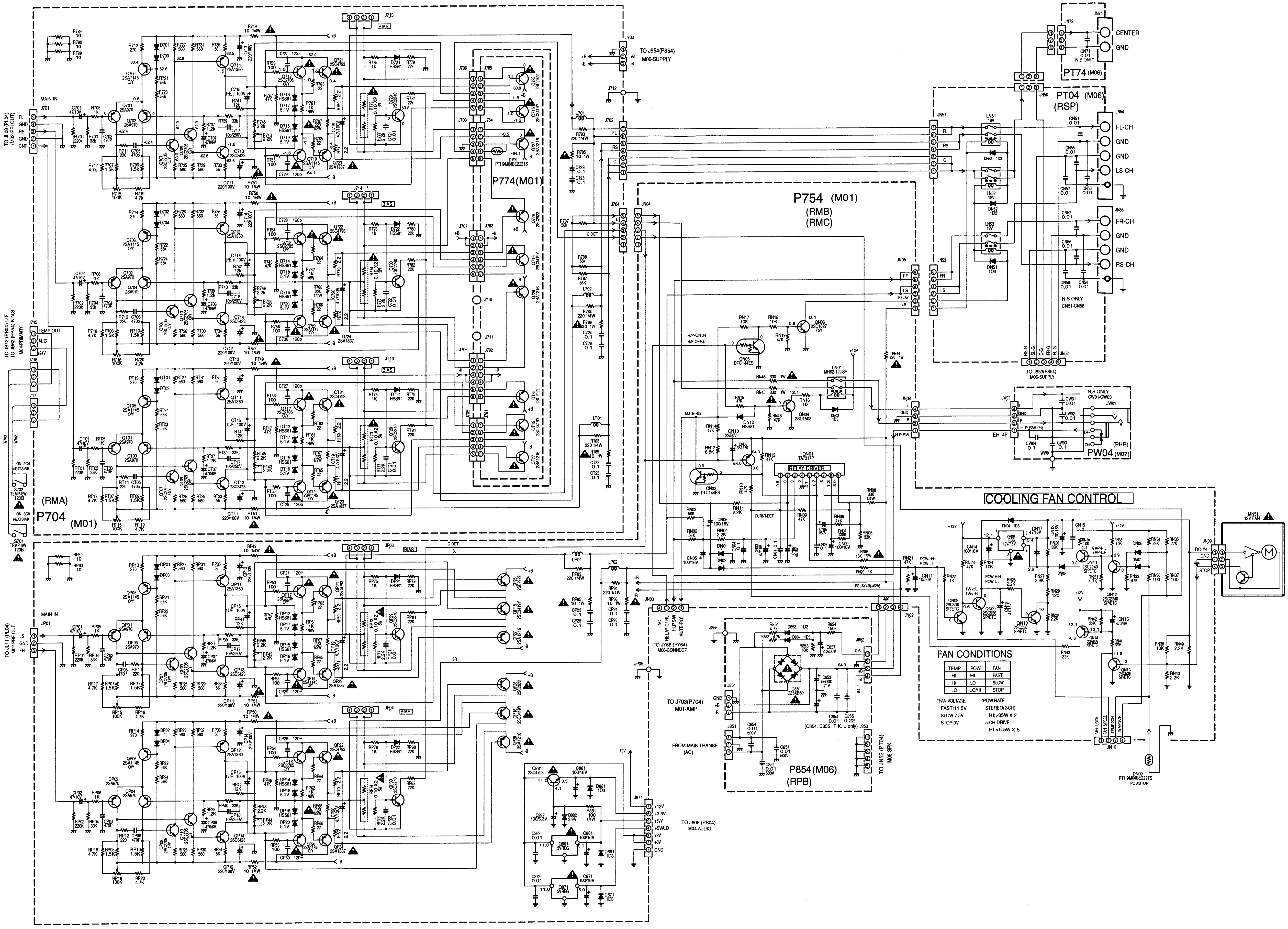
	2	4
THRU	L	L
OSD(EXT)	H	L
OSD(INT)	H/L	H

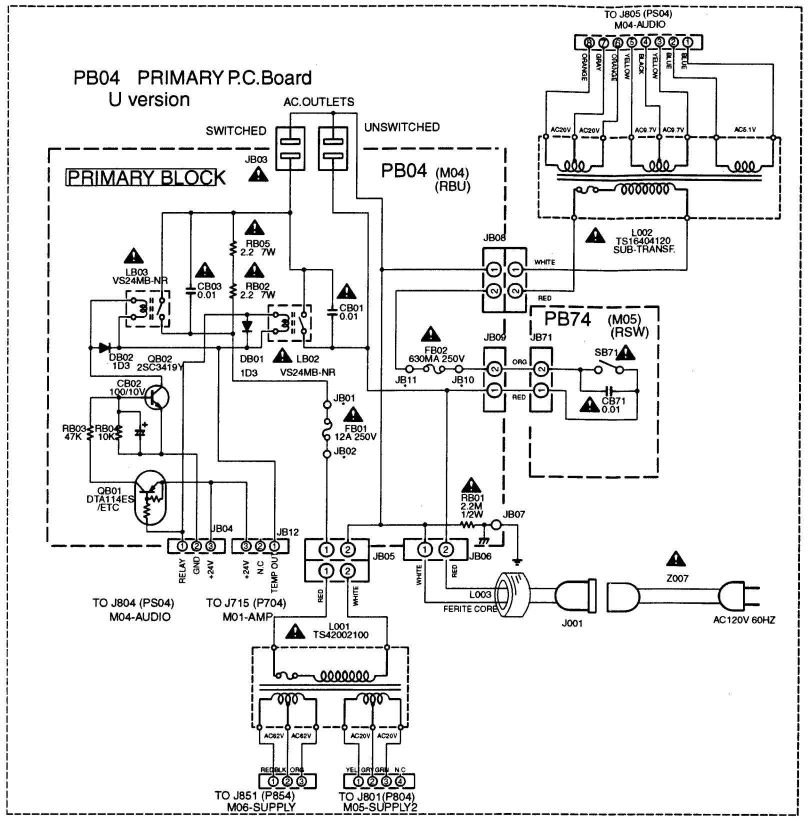
INPUT SELECTOR AND COPY SWITCH
:SAME DATA BETWEEN CVBS VIDEO AND S-VIDEO.
BA7612N/BA7613N
:SAME DATA BETWEEN BA7612N AND BA7613N


S-VIDEO SELECTOR PZ04 (M02)
(RVS)
COMPONENT VIDEO OUT
COMMON BUS
COPY
INPUT
OSD SWITCH
Y-C SEPARATE
EXT:H(INPUT):L(NO INPUT)
INT:L
OSDOFF:H
OSD-OFF:L
OTHRS:H
PICTURE
NO PICTURE

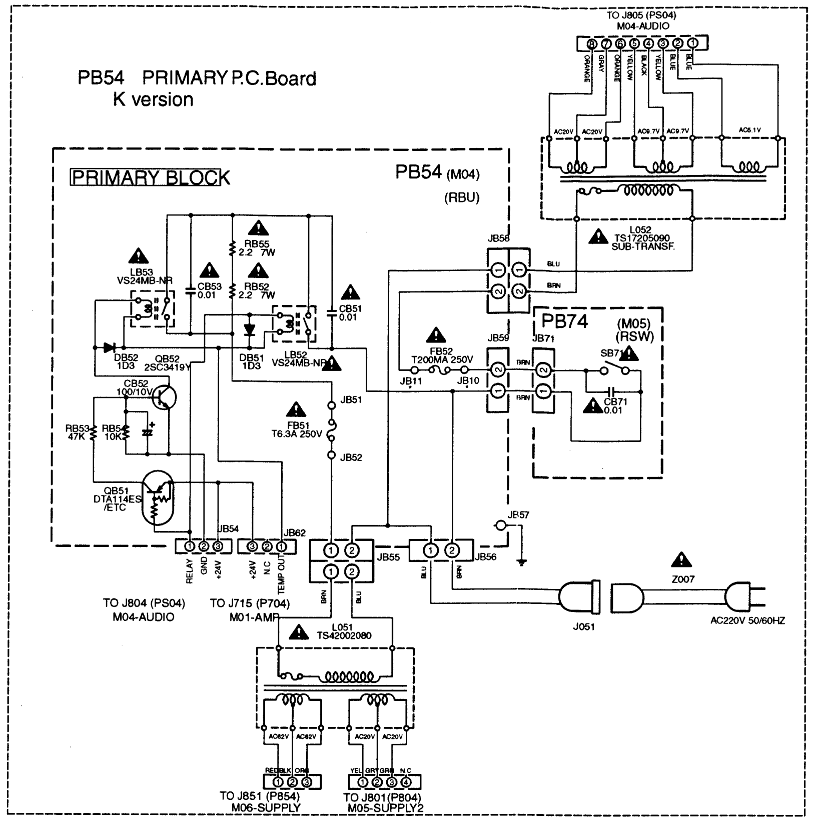
P104-2/2 ELE.VOL/MUTE CIRCUIT BLOCK


JC01
TUNER-L
TUNER-R
GND
L(OUT)
R(OUT)
TAPE-MUTE
VCR-MUTE
MULTI-MUTE
CDR/MD-MUT
CE6(P.EXP)
CEX(LRG/SML)
CE0(ANA.SW)
CE3(TONE)
MUTE-RELAY
TUNER-BLOCK
P104
QM17
NJU3713D
SB MUTE
SW MUTE
C MUTE
F MUTE
S MUTE
JC03
TO JC71 (P104)
M02-6CH IN
QC01
LC78213
FUNC
JC02
TO J601 (P604)
M08-DSP
SURR.BACK RCH
SURR.BACK LCH
QG51
TC9459N
ELE.VOL
RVR-XGXX
SUB WOOFER
CENTER
QV01
TC9459N
SURR.RCH
SURR.LCH
FRONT RCH
FRONT LCH
RVR-XVXX
ELE.VOL
XV7X-XV9X:SBLorSBR
XV4X-XV6X:SLorSR
XV0X-XV3X:LorR
RCR-XCXX
CROSS OVER
80Hz HPF
QC03-1
NJM4558DD
JC04
COMMON BUS
010K (HDAM CASE)
HDAM BLOCK
RMT-XMXX
MUTE CONTROL
SURR.BACK R
SURR.BACK L
SUB WOOFER
CENTER
SURR.R
SURR.L
FRONT R
FRONT L
JM04
TO J701 (P704)
M01-AMP
TO JP01 (P754)
M01-AMP
JM05
SW
JM03
PRE-OUT
SBR
MAIN-IN
PRE-OUT
SBL
MAIN-IN
JM02
PRE-OUT
CENTER
MAIN-IN
PRE-OUT
SR
MAIN-IN
PRE-OUT
SL
MAIN-IN
JM01
PRE-OUT
FR
MAIN-IN
PRE-OUT
FL
MAIN-IN

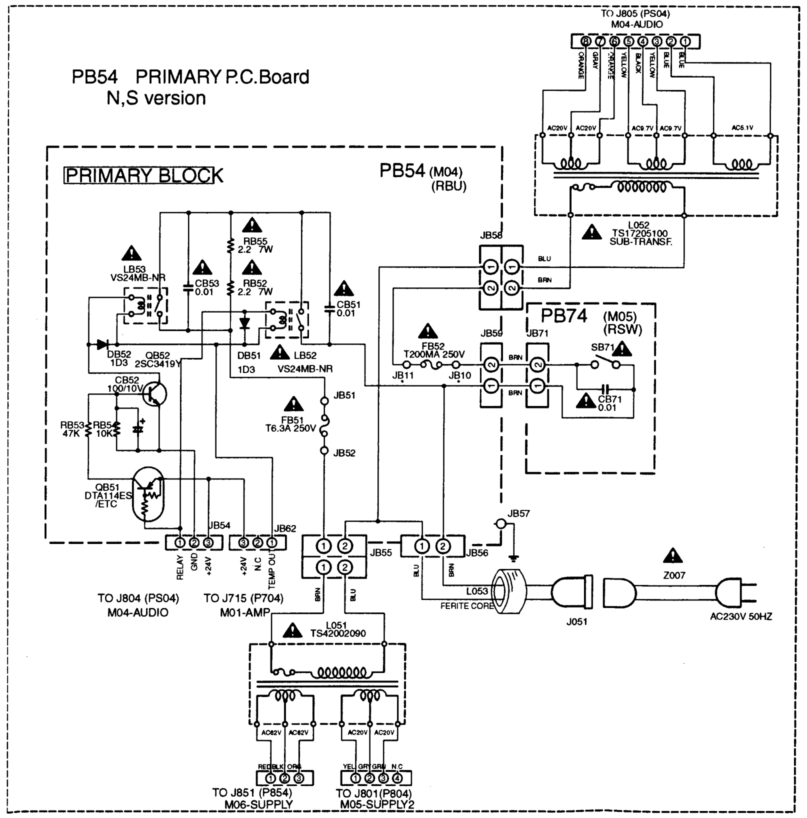

P704 (M01)
(RMA)
P774(M01)
P754 (M01)
(RMB)
(RMC)
PT74 (M06)
PT04 (M06)
(RSP)
PW04 (M07)
(RHP)
P854(M06)
(RPB)
COOLING FAN CONTROL
FAN CONDITIONS
TEMP. | POW. | FAN
HI | HI | FAST
HI | LO | SLOW
LO | LO/HI | STOP
*FAN VOLTAGE
FAST:11.5V
SLOW:7.5V
STOP:0V
*POW.RATE
STEREO(2-CH)
HI:>35W X 2
5-CH DRIVE
HI:>5.5W X 5
RELAY DRIVER
CENTER
GND
FL-CH
LS-CH
FR-CH
RS-CH
MN51 12V FAN
TO J854(P854) M06-SUPPLY
TO J853(P854) M06-SUPPLY
TO J703(P704) M01-AMP
TO JY68 (PY64) M06-CONNECT
TO J806 (PS04) M04-AUDIO
TO JN52 (PT04) M06-SPK
FROM MAIN TRANSF (AC)
TO JL06 (PL04) M02-PRI OUT
TO JL11 (PL04) M02-PRE OUT
TO JB12 (PB04) U,F TO JB62 (PB54) K,N,S M04-PRIMARY
S702 TEMP-SW 120B
S701 TEMP-SW 120B
N.S ONLY
DN09 PTH9M04BE222TS POSISTOR
D799 PTH9M04BE222TS
QN01 TA7317P
LN01 MRB2-12USR
D851 D25XB60
Q861 5VREG
Q871 5VREG
EH 4P


PB04 PRIMARY P.C.Board
U version

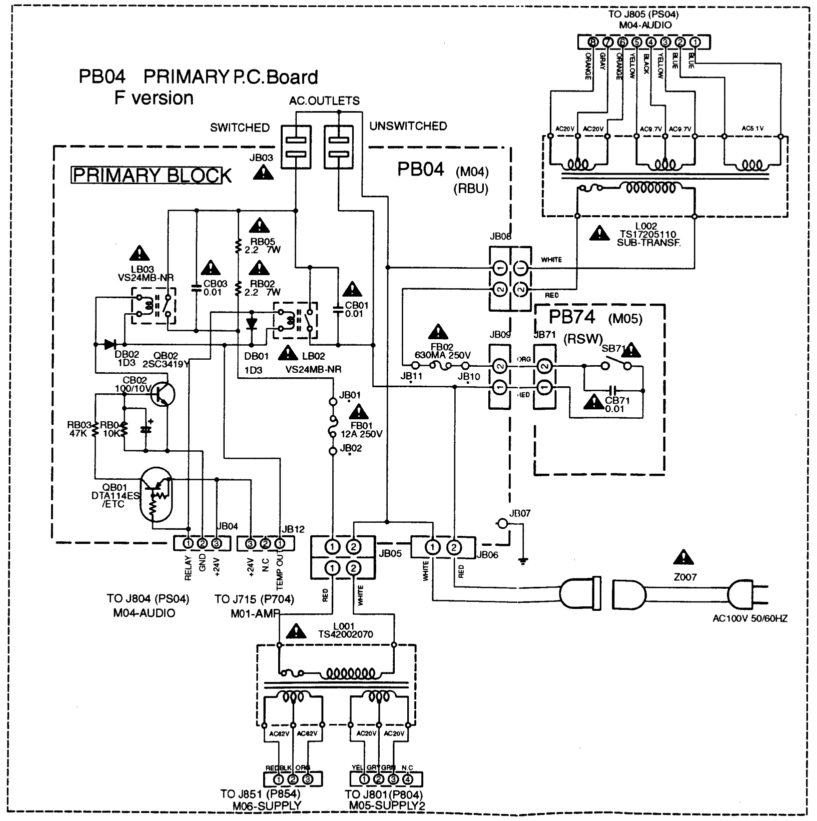
TO J805 (PS04)
M04-AUDIO
ORANGE
GRAY
ORANGE
YELLOW
BLACK
YELLOW
BLUE
BLUE
AC20V
AC20V
AC9.7V
AC9.7V
AC5.1V
AC.OUTLETS
SWITCHED
UNSWITCHED
JB03
PRIMARY BLOCK
PB04 (M04)
(RBU)
L002
TS16404120
SUB-TRANSF.
JB08
WHITE
RED
RB05
2.2 7W
RB02
2.2 7W
LB03
VS24MB-NR
CB03
0.01
CB01
0.01
DB02
1D3
QB02
2SC3419Y
DB01
1D3
LB02
VS24MB-NR
FB02
630MA 250V
JB09
JB11
JB10
PB74 (M05)
(RSW)
JB71
ORG
RED
SB71
CB71
0.01
CB02
100/10V
RB03
47K
RB04
10K
JB01
FB01
12A 250V
JB02
QB01
DTA114ES
/ETC
RB01
2.2M
1/2W
JB07
JB04
JB12
JB05
JB06
RELAY
GND
+24V
+24V
N.C
TEMP OUT
TO J804 (PS04)
M04-AUDIO
TO J715 (P704)
M01-AMP
RED
WHITE
WHITE
RED
L003
FERITE CORE
J001
Z007
AC120V 60HZ
L001
TS42002100
AC62V
AC62V
AC20V
AC20V
RED
BLK
ORG
YEL
GRY
GRN
N.C
TO J851 (P854)
M06-SUPPLY
TO J801(P804)
M05-SUPPLY2


PB54 PRIMARY P.C.Board
K version

TO J805 (PS04)
M04-AUDIO
ORANGE
GRAY
ORANGE
YELLOW
BLACK
YELLOW
BLUE
BLUE
AC20V
AC20V
AC9.7V
AC9.7V
AC5.1V
PRIMARY BLOCK
PB54 (M04)
(RBU)
L052
TS17205090
SUB-TRANSF.
JB58
BLU
BRN
RB55
2.2 7W
RB52
2.2 7W
LB53
VS24MB-NR
CB53
0.01
CB51
0.01
DB52
1D3
QB52
2SC3419Y
DB51
1D3
LB52
VS24MB-NR
FB52
T200MA 250V
JB59
JB11
JB10
PB74 (M05)
(RSW)
JB71
BRN
BRN
SB71
CB71
0.01
CB52
100/10V
RB53
47K
RB54
10K
JB51
FB51
T6.3A 250V
JB52
QB51
DTA114ES
/ETC
JB57
JB54
JB62
JB55
JB56
RELAY
GND
+24V
+24V
N.C
TEMP OUT
TO J804 (PS04)
M04-AUDIO
TO J715 (P704)
M01-AMP
BRN
BLU
BLU
BRN
J051
Z007
AC220V 50/60HZ
L051
TS42002080
AC62V
AC62V
AC20V
AC20V
RED
BLK
ORG
YEL
GRY
GRN
N.C
TO J851 (P854)
M06-SUPPLY
TO J801(P804)
M05-SUPPLY2

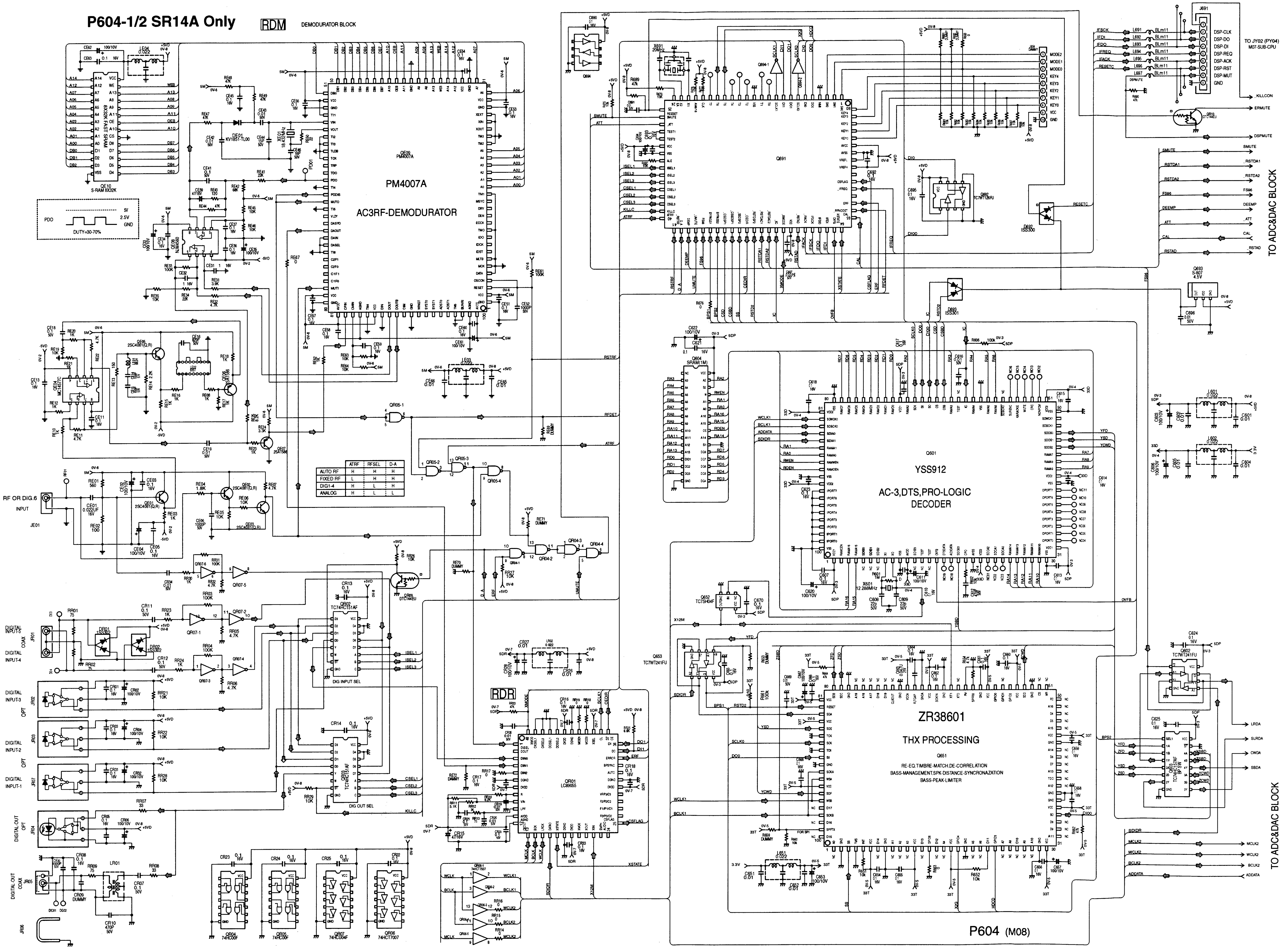

PB54 PRIMARY P.C.Board
N,S version

TO J805 (PS04)
M04-AUDIO
ORANGE
GRAY
ORANGE
YELLOW
BLACK
YELLOW
BLUE
BLUE
AC20V
AC20V
AC9.7V
AC9.7V
AC5.1V
PRIMARY BLOCK
PB54 (M04)
(RBU)
L052
TS17205100
SUB-TRANSF.
JB58
BLU
BRN
RB55
2.2 7W
RB52
2.2 7W
LB53
VS24MB-NR
CB53
0.01
CB51
0.01
DB52
1D3
QB52
2SC3419Y
DB51
1D3
LB52
VS24MB-NR
FB52
T200MA 250V
JB59
JB11
JB10
PB74 (M05)
(RSW)
JB71
BRN
BRN
SB71
CB71
0.01
CB52
100/10V
RB53
47K
RB54
10K
JB51
FB51
T6.3A 250V
JB52
QB51
DTA114ES
/ETC
JB57
JB54
JB62
JB55
JB56
RELAY
GND
+24V
+24V
N.C
TEMP OUT
TO J804 (PS04)
M04-AUDIO
TO J715 (P704)
M01-AMP
BRN
BLU
BLU
BRN
L053
FERITE CORE
J051
Z007
AC230V 50HZ
L051
TS42002090
AC62V
AC62V
AC20V
AC20V
RED
BLK
ORG
YEL
GRY
GRN
N.C
TO J851 (P854)
M06-SUPPLY
TO J801(P804)
M05-SUPPLY2


PB04 PRIMARY P.C.Board
F version

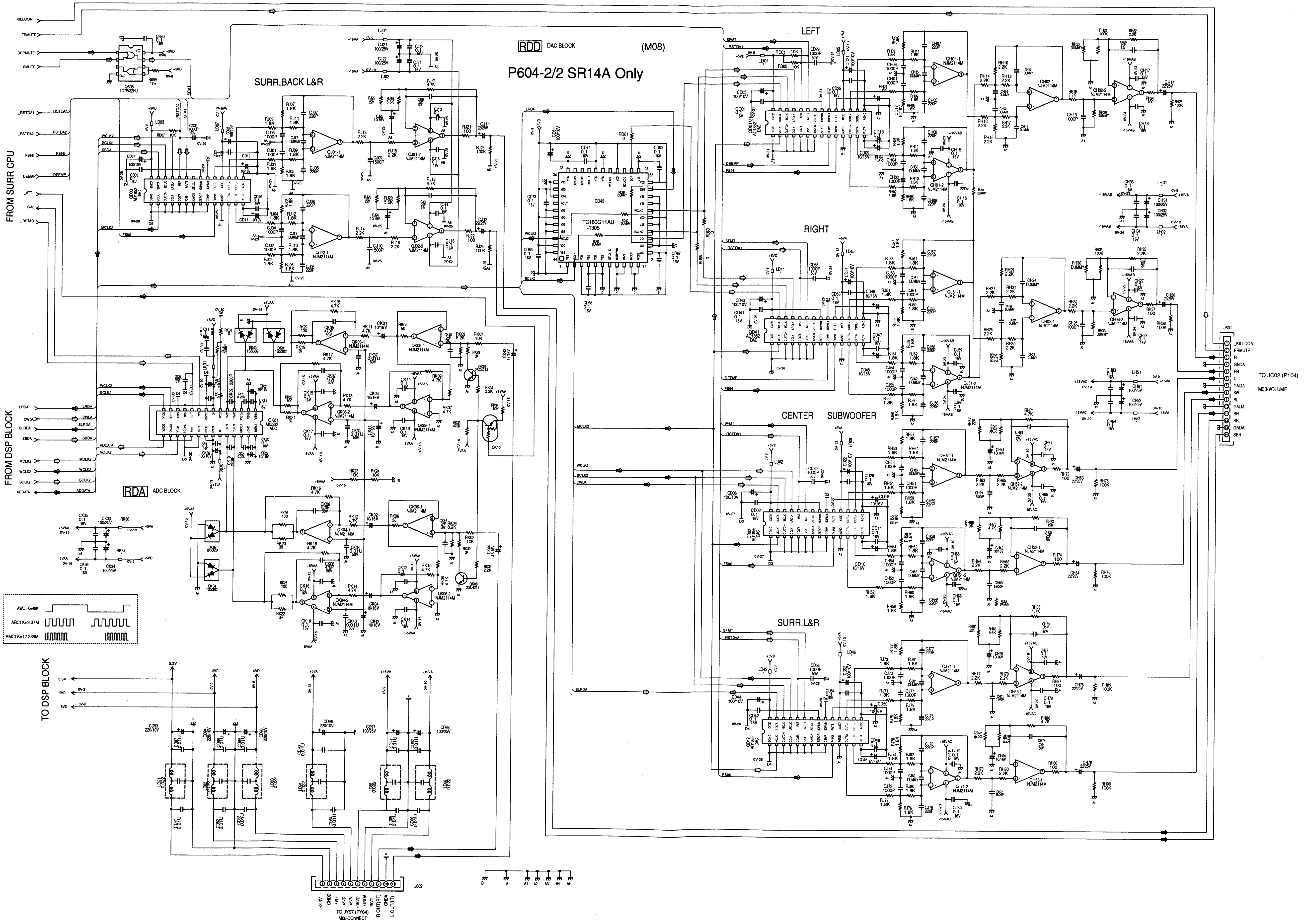
TO J805 (PS04)
M04-AUDIO
ORANGE
GRAY
ORANGE
YELLOW
BLACK
YELLOW
BLUE
BLUE
AC20V
AC20V
AC9.7V
AC9.7V
AC5.1V
AC.OUTLETS
SWITCHED
UNSWITCHED
JB03
PRIMARY BLOCK
PB04 (M04)
(RBU)
L002
TS17205110
SUB-TRANSF.
JB08
WHITE
RED
RB05
2.2 7W
RB02
2.2 7W
LB03
VS24MB-NR
CB03
0.01
CB01
0.01
DB02
1D3
QB02
2SC3419Y
DB01
1D3
LB02
VS24MB-NR
FB02
630MA 250V
JB09
JB11
JB10
PB74 (M05)
(RSW)
JB71
ORG
RED
SB71
CB71
0.01
CB02
100/10V
RB03
47K
RB04
10K
JB01
FB01
12A 250V
JB02
QB01
DTA114ES
/ETC
JB07
JB04
JB12
JB05
JB06
RELAY
GND
+24V
+24V
N.C
TEMP OUT
TO J804 (PS04)
M04-AUDIO
TO J715 (P704)
M01-AMP
RED
WHITE
WHITE
RED
Z007
AC100V 50/60HZ
L001
TS42002070
AC62V
AC62V
AC20V
AC20V
RED
BLK
ORG
YEL
GRY
GRN
N.C
TO J851 (P854)
M06-SUPPLY
TO J801(P804)
M05-SUPPLY2

P604-1/2 SR14A Only

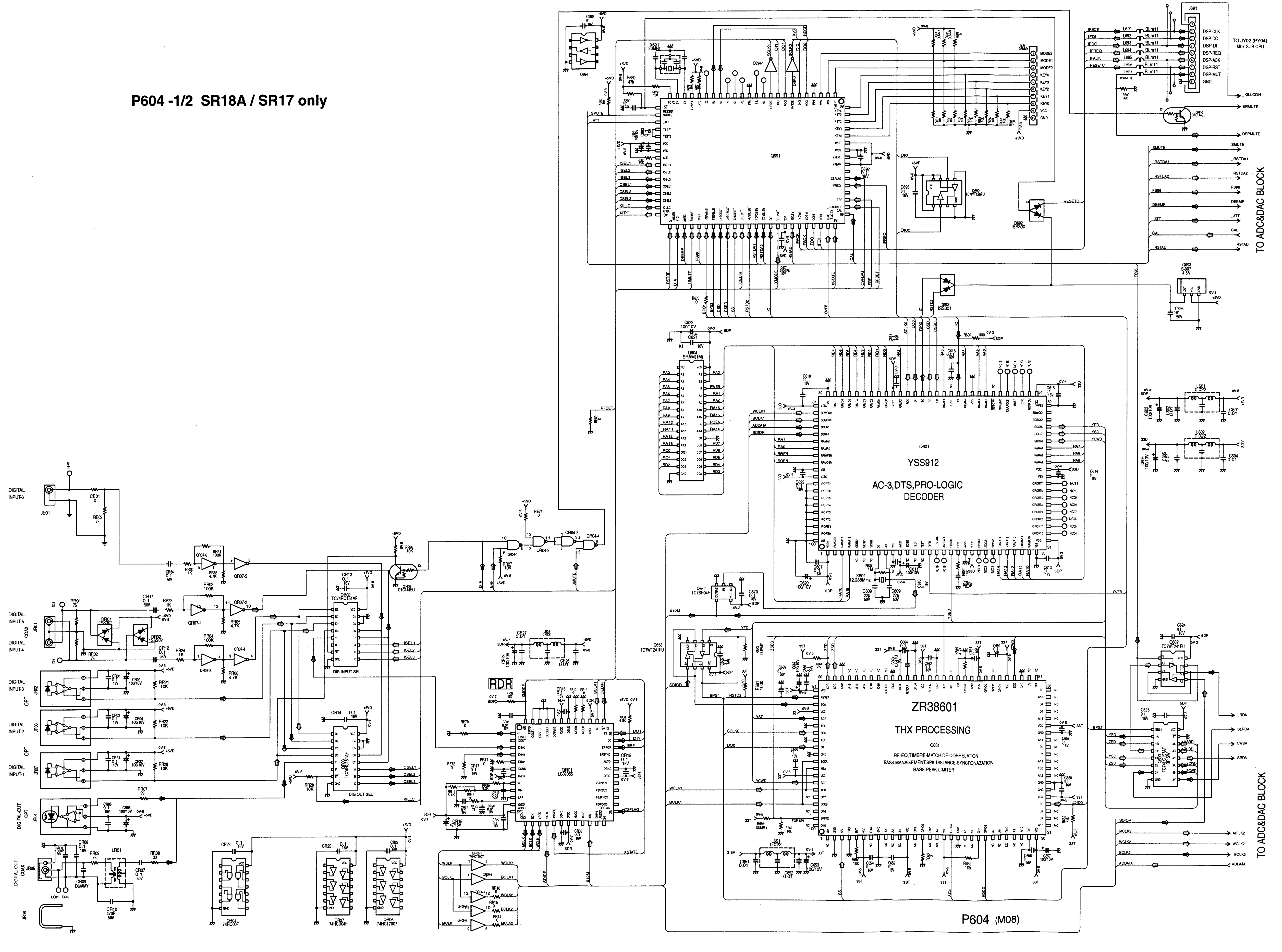

RDM DEMODURATOR BLOCK
QE10 S-RAM 8X32K
PDO
5V
2.5V
GND
DUTY=30-70%
QE05 PM4007A
PM4007A
AC3RF-DEMODURATOR
RF OR DIG.6 INPUT
JE01
DIGITAL INPUT-5
DIGITAL INPUT-4
DIGITAL INPUT-3
DIGITAL INPUT-2
DIGITAL INPUT-1
DIGITAL OUT OPT
DIGITAL OUT COAX
QR02 TC74HC151AF
DIG INPUT SEL
QR03 TC74HC151AF
DIG OUT SEL
RDR
QR01 LC89055
QR04 74HC00F
QR05 74HC00F
QR07 74HCU04F
QR06 74HCT7007
Q691
Q604 SRAM(1M)
Q601
YSS912
AC-3,DTS,PRO-LOGIC DECODER
X601 12.288MHz
ZR38601
THX PROCESSING
Q651
RE-EQ.TIMBRE MATCH.DE-CORRELATION
BASS-MANAGEMENT.SPK-DISTANCE-SYNCRONAZATION
BASS-PEAK-LIMITER
Q653 TC7WT241FU
Q602 TC7WT241FU
Q603 TC74HC157AF
J691
DSP-CLK
DSP-DO
DSP-DI
DSP-REQ
DSP-ACK
DSP-RST
DSP-MUT
GND
TO JY02 (PY04) M07-SUB-CPU
KILLCON
ERMUTE
DSPMUTE
SMUTE
RSTDA1
RSTDA2
FS96
DEEMP
ATT
CAL
RSTAD
TO ADC&DAC BLOCK
LRDA
SLRDA
CWDA
SBDA
MCLK2
WCLK2
BCLK2
ADDATA
TO ADC&DAC BLOCK

	ATRF	RFSEL	D-A
AUTO RF	H	H	H
FIXED RF	L	H	H
DIG1-4	H	L	H
ANALOG	H	L	L

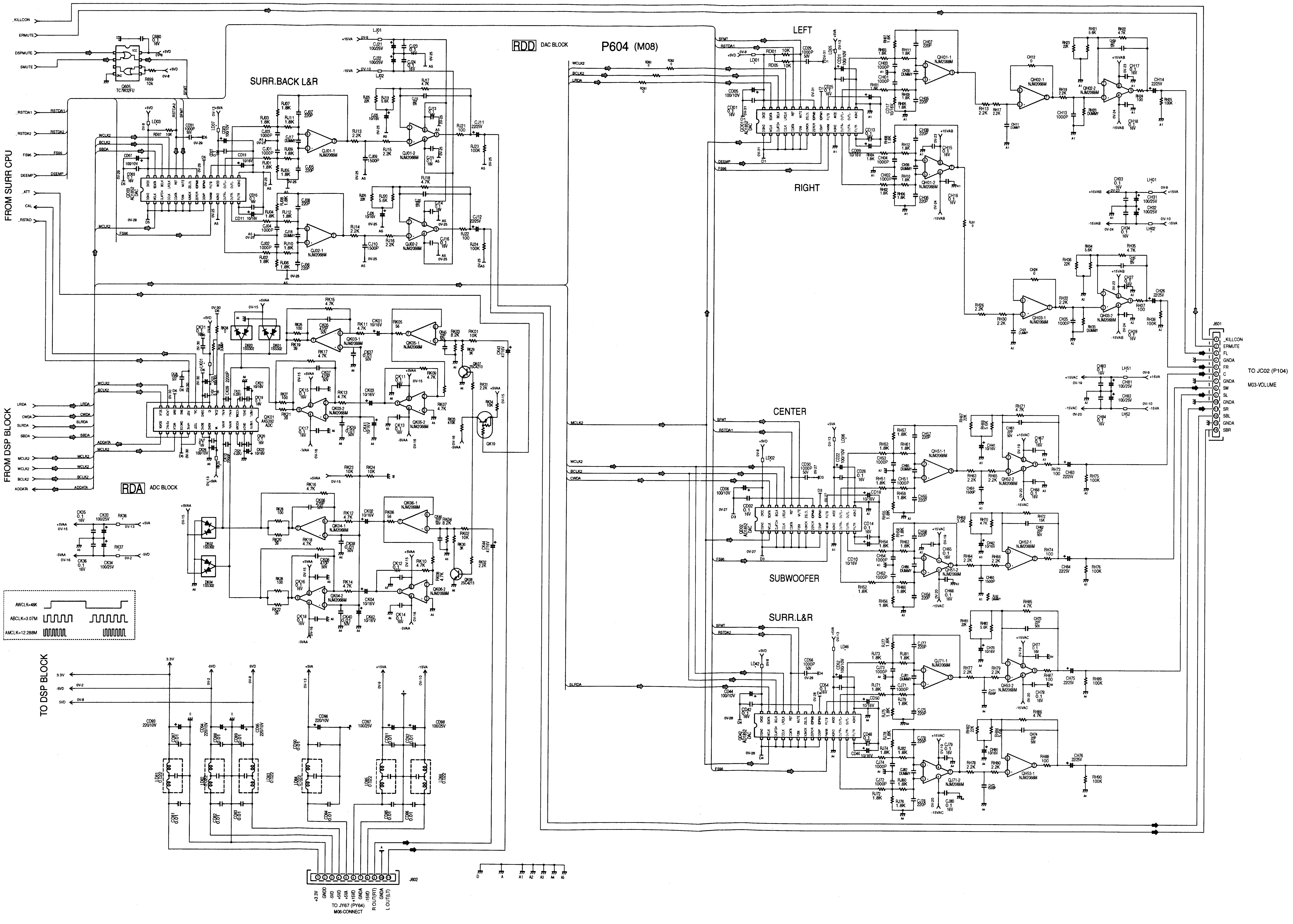
P604 (M08)


RDD DAC BLOCK
(M08)
P604-2/2 SR14A Only
SURR.BACK L&R
LEFT
RIGHT
CENTER
SUBWOOFER
SURR.L&R
RDA ADC BLOCK
FROM SURR CPU
FROM DSP BLOCK
TO DSP BLOCK
_KILLCON
ERMUTE
DSPMUTE
SMUTE
_RSTDA1
_RSTDA2
FS96
DEEMP
_ATT
CAL
_RSTAD
LRDA
CWDA
SLRDA
SBDA
MCLK2
WCLK2
BCLK2
ADDATA
3.3V
-5VD
5VD
TC160G11AU
-1305
QD43
TC7W02FU
AWCLK=48K
ABCLK=3.07M
AMCLK=12.288M
J601
_KILLCON
ERMUTE
FL
GNDA
FR
C
GNDA
SW
SL
GNDA
SR
SBL
GNDA
SBR
TO JC02 (P104)
M03-VOLUME
J602
+3.3V
GNDD
-5VD
+5VD
+5VA
-5VA
+15VA
GNDA
-15VD
R OUT(RT)
GNDA
L OUT(LT)
TO JY67 (PY64)
M06-CONNECT
D
A
A1
A2
A3
A4
A5

P604 -1/2 SR18A / SR17 only


Q601
YSS912
AC-3,DTS,PRO-LOGIC
DECODER
ZR38601
THX PROCESSING
Q651
RE-EQ,TIMBRE-MATCH,DE-CORRELATION
BASS-MANAGEMENT,SPK-DISTANCE-SYNCRONAZATION
BASS-PEAK-LIMITER
Q691
J691
DSP-CLK
DSP-DO
DSP-DI
DSP-REQ
DSP-ACK
DSP-RST
DSP-MUT
GND
TO JY02 (PY04)
M07-SUB-CPU
KILLCON
ERMUTE
DSPMUTE
SMUTE
RSTDA1
RSTDA2
FS96
DEEMP
ATT
CAL
RSTAD
TO ADC&DAC BLOCK
Q692
TC7WT125FU
D692
1SS300
D693
1SS301
Q693
S-807
4.3V
Q604
SRAM(1M)
Q653
TC7SH04F
Q653
TC7WT241FU
Q652
TC7WT241FU
LRDA
SLRDA
CWDA
SBDA
MCLK2
WCLK2
BCLK2
ADDATA
TO ADC&DAC BLOCK
P604 (M08)
DIGITAL
INPUT-6
JE01
DIGITAL
INPUT-5
COAX
DIGITAL
INPUT-4
OPT
DIGITAL
INPUT-3
OPT
DIGITAL
INPUT-2
OPT
DIGITAL
INPUT-1
OPT
DIGITAL OUT
OPT
DIGITAL OUT
COAX
DIG INPUT SEL
QR09
TC74HC151AF
DIG OUT SEL
QR08
TC74HC151AF
RDR
QR01
LC89055
QR06
DTC144EU
QR04
74HC00F
QR07
74HCU04F
QR06
74HCT7007

P604 -2/2 SR18A / SR17 only

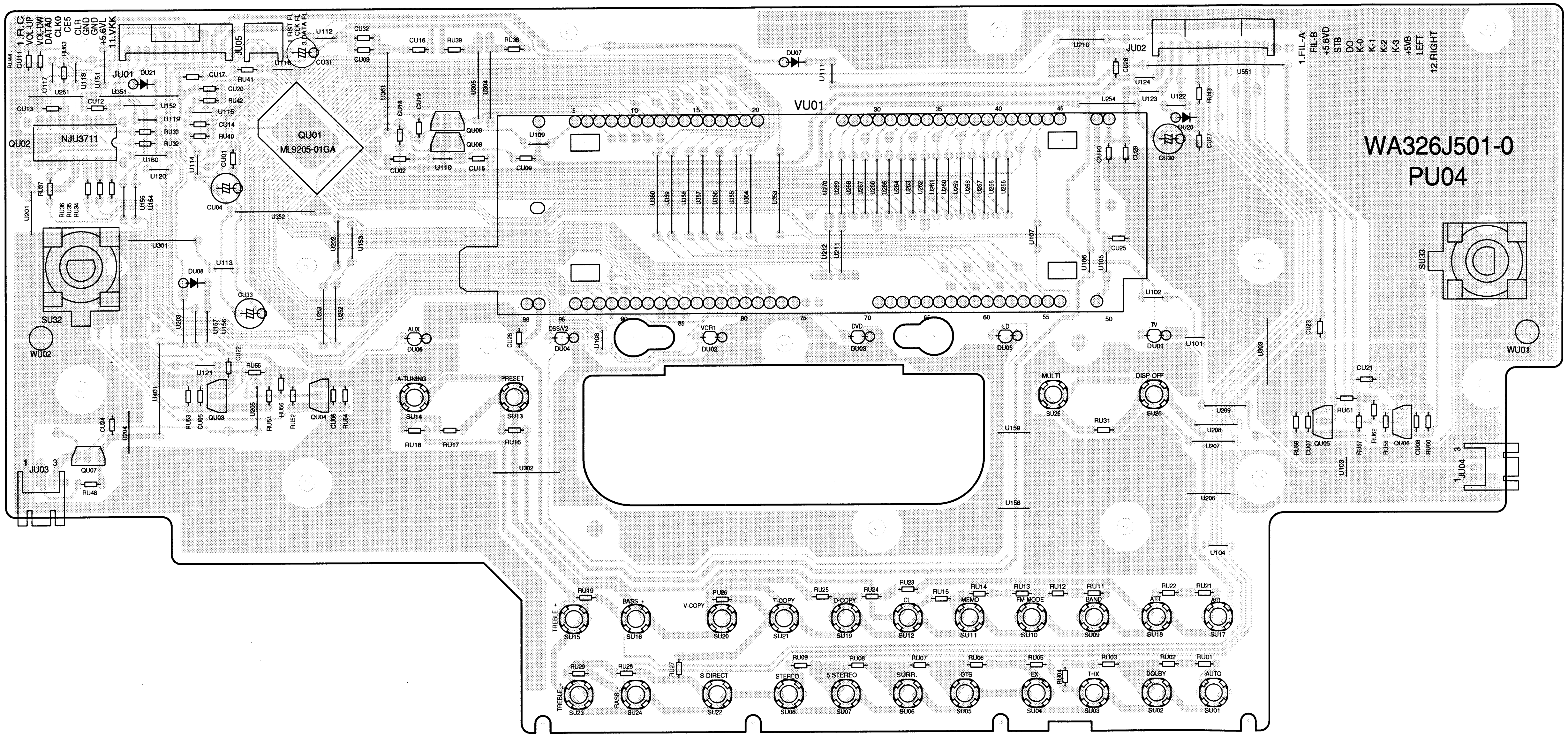

KILLCON
ERMUTE
DSPMUTE
SMUTE
Q605 TC7W32FU
SURR.BACK L&R
RDD DAC BLOCK
P604 (M08)
LEFT
RIGHT
FROM SURR CPU
_RSTDA1
_RSTDA2
FS96
DEEMP
_ATT
CAL
_RSTAD
QJ01-1 NJM2068M
QJ01-2 NJM2068M
QJ02-1 NJM2068M
QJ02-2 NJM2068M
QH01-1 NJM2068M
QH01-2 NJM2068M
QH02-1 NJM2068M
QH02-2 NJM2068M
QH03-1 NJM2068M
QH03-2 NJM2068M
FROM DSP BLOCK
LRDA
CWDA
SLRDA
SBDA
MCLK2
WCLK2
BCLK2
ADDATA
RDA ADC BLOCK
QK01 AK5352 ADC
QK03-1 NJM2068M
QK03-2 NJM2068M
QK04-1 NJM2068M
QK04-2 NJM2068M
QK05-1 NJM2068M
QK05-2 NJM2068M
QK06-1 NJM2068M
QK06-2 NJM2068M
QK07 2SC4213
QK08 2SC4213
QK10
CENTER
SUBWOOFER
SURR.L&R
QH51-1 NJM2068M
QH51-2 NJM2068M
QH52-1 NJM2068M
QH52-2 NJM2068M
QH53-1 NJM2068M
QH53-2 NJM2068M
QJ71-1 NJM2068M
QJ71-2 NJM2068M
J601
_KILLCON
ERMUTE
FL
GNDA
FR
C
GNDA
SW
SL
GNDA
SR
SBL
GNDA
SBR
TO JC02 (P104)
M03-VOLUME
AWCLK=48K
ABCLK=3.07M
AMCLK=12.288M
TO DSP BLOCK
3.3V
-5VD
5VD
J602
+3.3V
GNDD
-5VD
+5VD
+5VA
+15VD
GNDA
-15VA
+5VD
R OUT(FR)
GNDA
L OUT(FL)
TO JY67 (PY64)
M06-CONNECT

5. PARTS LOCATION (Pattern Side)

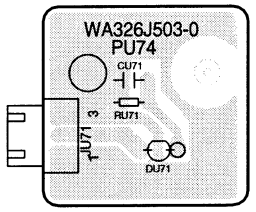
PU04

QU02

QU01

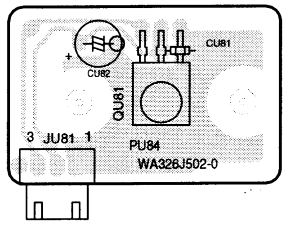

1.R.C
VOL-UP
VOL-DW
DATA0
CLK0
CE5
CLR
GND
GND
+5.6VL
11.VKK
JU01
JU05
1.RST FL
CLK FL
3.DATA FL
NJU3711
QU01
ML9205-01GA
VU01
JU02
1.FIL-A
FIL-B
+5.6VD
STB
DO
K-0
K-1
K-2
K-3
+5VB
LEFT
12.RIGHT
WA326J501-0
PU04
SU32
SU33
WU01
WU02
JU03
JU04
AUX
DSS/V2
VCR1
DVD
LD
TV
A-TUNING
PRESET
MULTI
DISP-OFF
TREBLE +
BASS +
V-COPY
T-COPY
D-COPY
CL
MEMO
FM-MODE
BAND
ATT
A/D
TREBLE -
BASS -
S-DIRECT
STEREO
5 STEREO
SURR.
DTS
EX
THX
DOLBY
AUTO

PU74


WA326J503-0
PU74
CU71
RU71
JU71
DU71

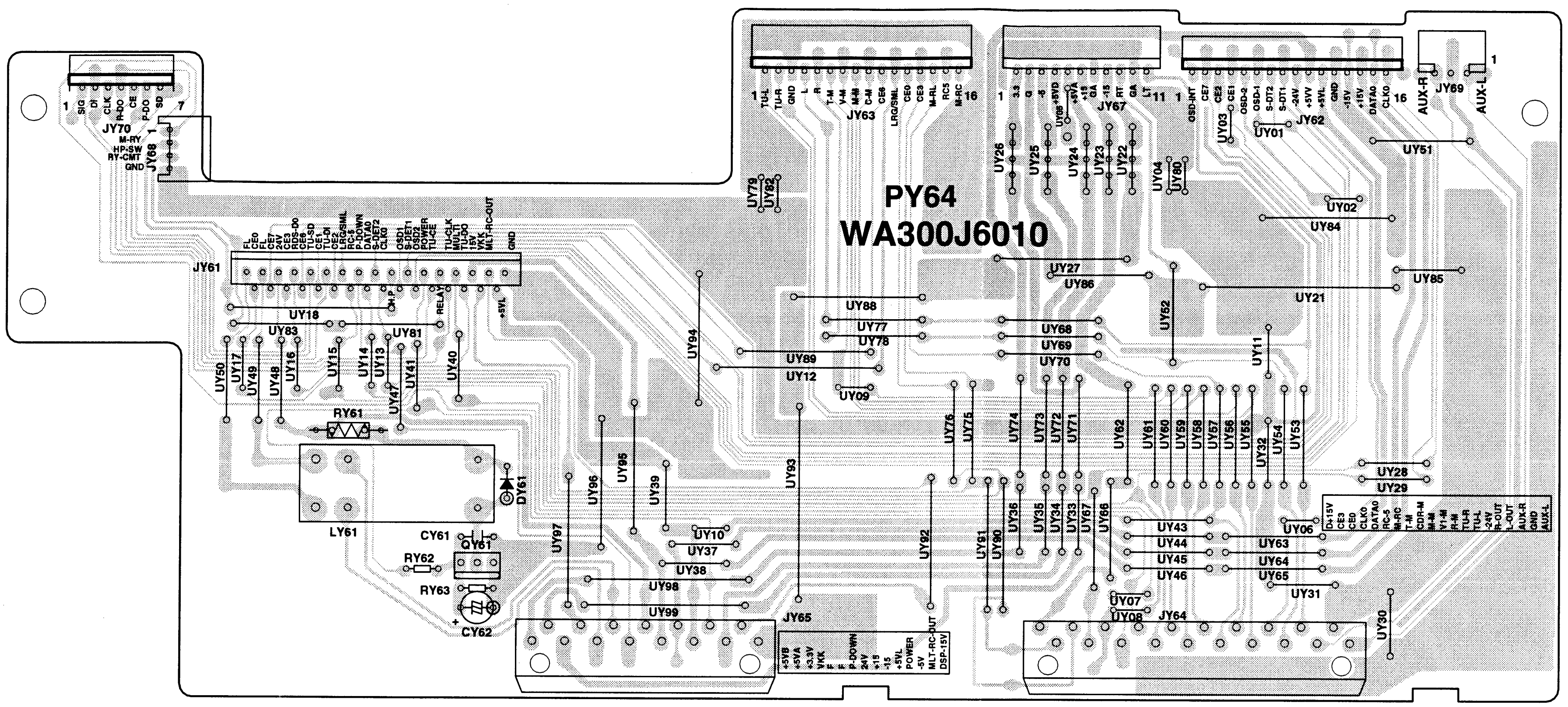
PU84

QU81


CU81
CU82
QU81
3 JU81 1
PU84
WA326J502-0

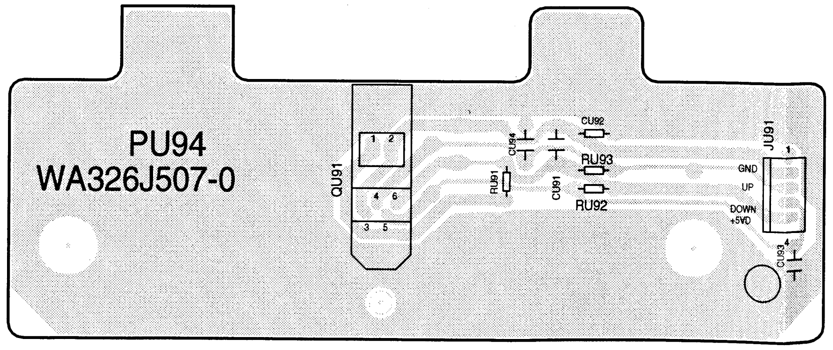
PY64

QY61

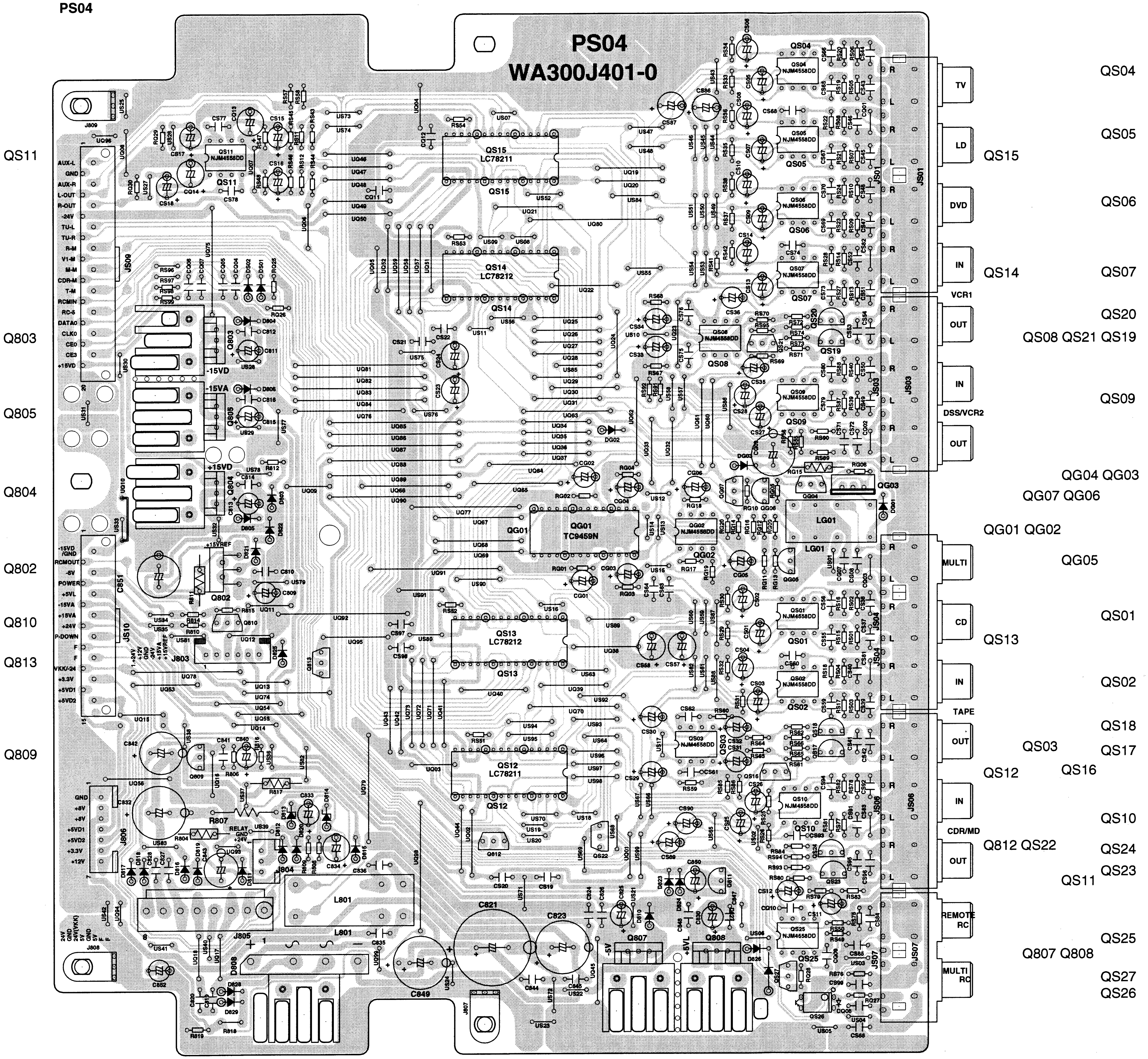

PY64
WA300J6010
JY61
JY63
JY67
JY62
JY69
JY70
JY68
JY64
JY65
LY61
RY61
RY62
RY63
CY61
CY62
QY61
DY61
AUX-R
AUX-L

PU94

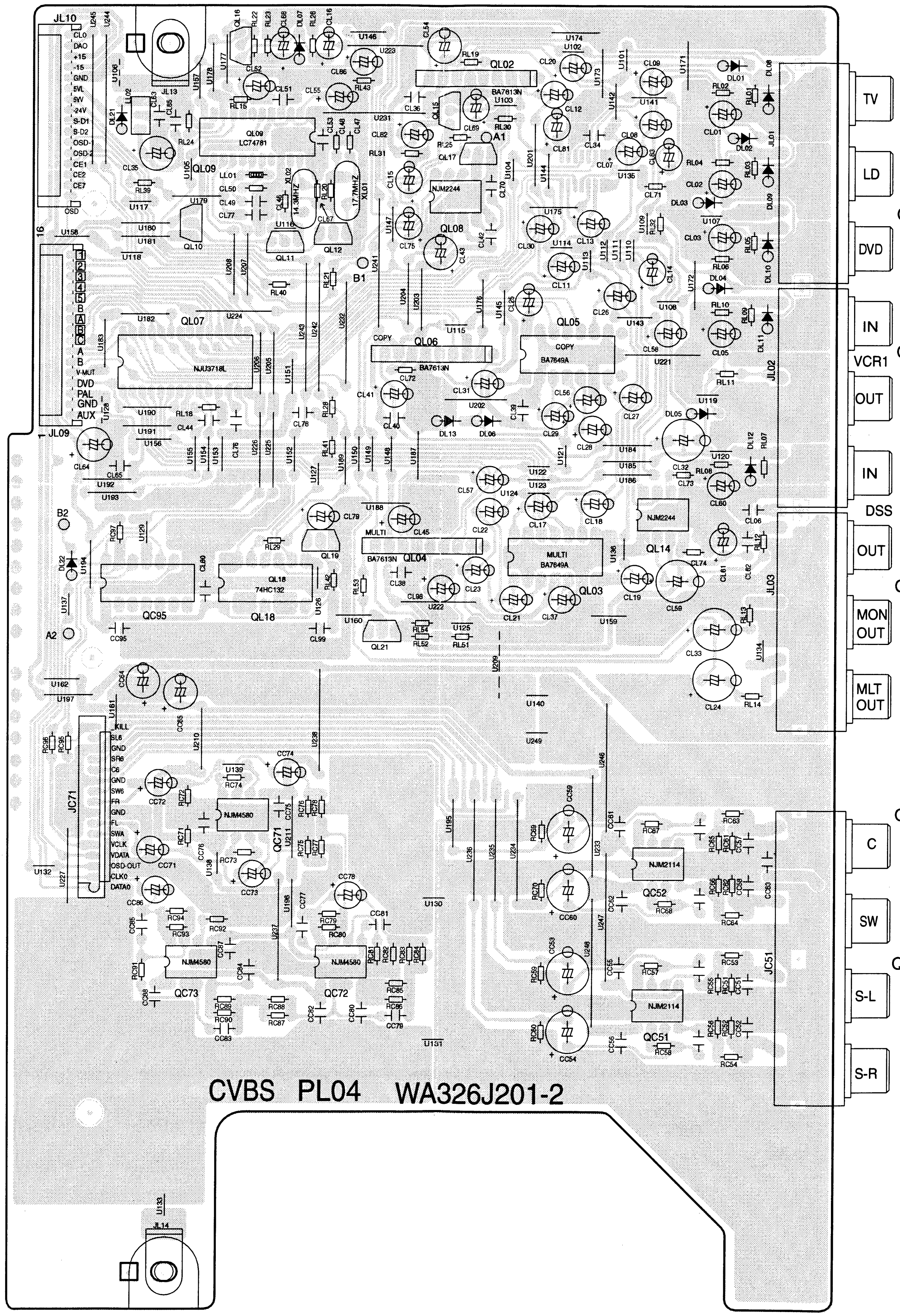
QU91


PU94
WA326J507-0
QU91
JU91
CU92
RU93
RU92
RU91
CU91
CU93
GND
UP
DOWN
+5VD

PS04

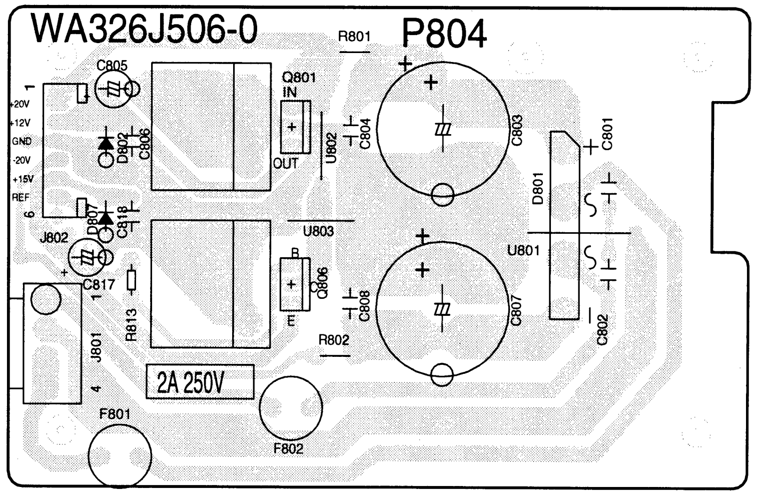

PS04
WA300J401-0
QS11
Q803
Q805
Q804
Q802
Q810
Q813
Q809
QS04
QS05
QS15
QS06
QS14
QS07
QS20
QS08 QS21 QS19
QS09
QG04 QG03
QG07 QG06
QG01 QG02
QG05
QS01
QS13
QS02
QS18
QS03
QS17
QS12
QS16
QS10
Q812 QS22
QS24
QS23
QS11
QS25
Q807 Q808
QS27
QS26
TV
LD
DVD
IN
VCR1
OUT
IN
DSS/VCR2
OUT
MULTI
CD
IN
TAPE
OUT
IN
CDR/MD
OUT
REMOTE RC
MULTI RC
JS01
JS03
JS04
JS06
JS07
QS15 LC78211
QS14 LC78212
QS13 LC78212
QS12 LC78211
QG01 TC9459N
LG01
L801
C821
C823
C849
C851
-15VD
-15VA
+15VD
+15VREF
AUX-L
GND
AUX-R
L-OUT
R-OUT
-24V
TU-L
TU-R
R-M
V1-M
M-M
CDR-M
T-M
RCMIN
RC-5
DATAO
CLKO
CEO
CE3
+15VD
-15VD /GND
RCMOUT
-5V
POWER
+5VL
-15VA
+15VA
+24V
P-DOWN
F
F
VKK/-24
+3.3V
+5VD1
+5VD2
+8V
+8V
+5VD1
+5VD2
+3.3V
+12V
RELAY
J803
J804
J805
J806
J807
J808
J809
JS09
JS10
5V
+5VL

PL04

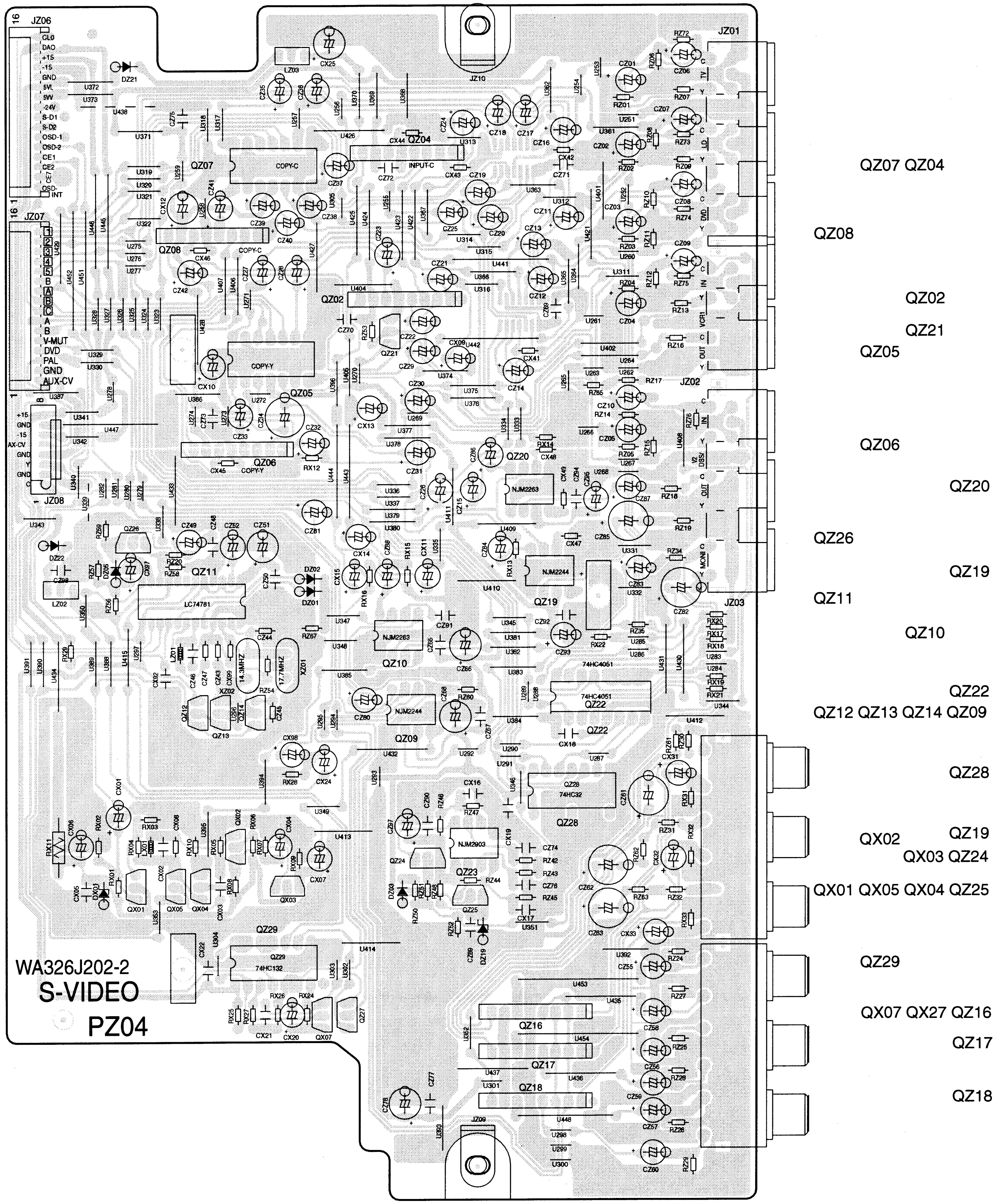

QL16
QL02
QL09 QL15 QL17
QL08
QL10
QL11 QL12
QL07 QL06 QL05
QL14
QL19 QL04 QL03
QC95 QL18
QL21
QC71
QV52
QC73 QC72
QV51
TV
LD
DVD
IN
VCR1
OUT
IN
DSS
OUT
MON OUT
MLT OUT
C
SW
S-L
S-R
JL02
JL03
JC51
JL09
JL10
JC71
CVBS PL04 WA326J201-2

P804

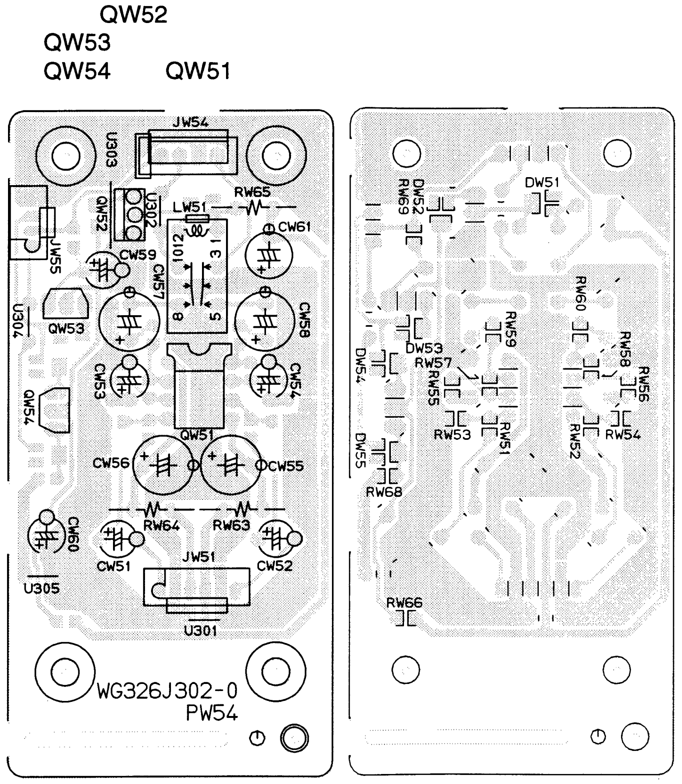
Q801
Q806


WA326J506-0
P804
R801
C805
Q801
IN
OUT
U802
C804
C803
C801
D801
U801
U803
Q806
C808
C807
C802
R802
J802
C817
C818
R813
J801
2A 250V
F801
F802

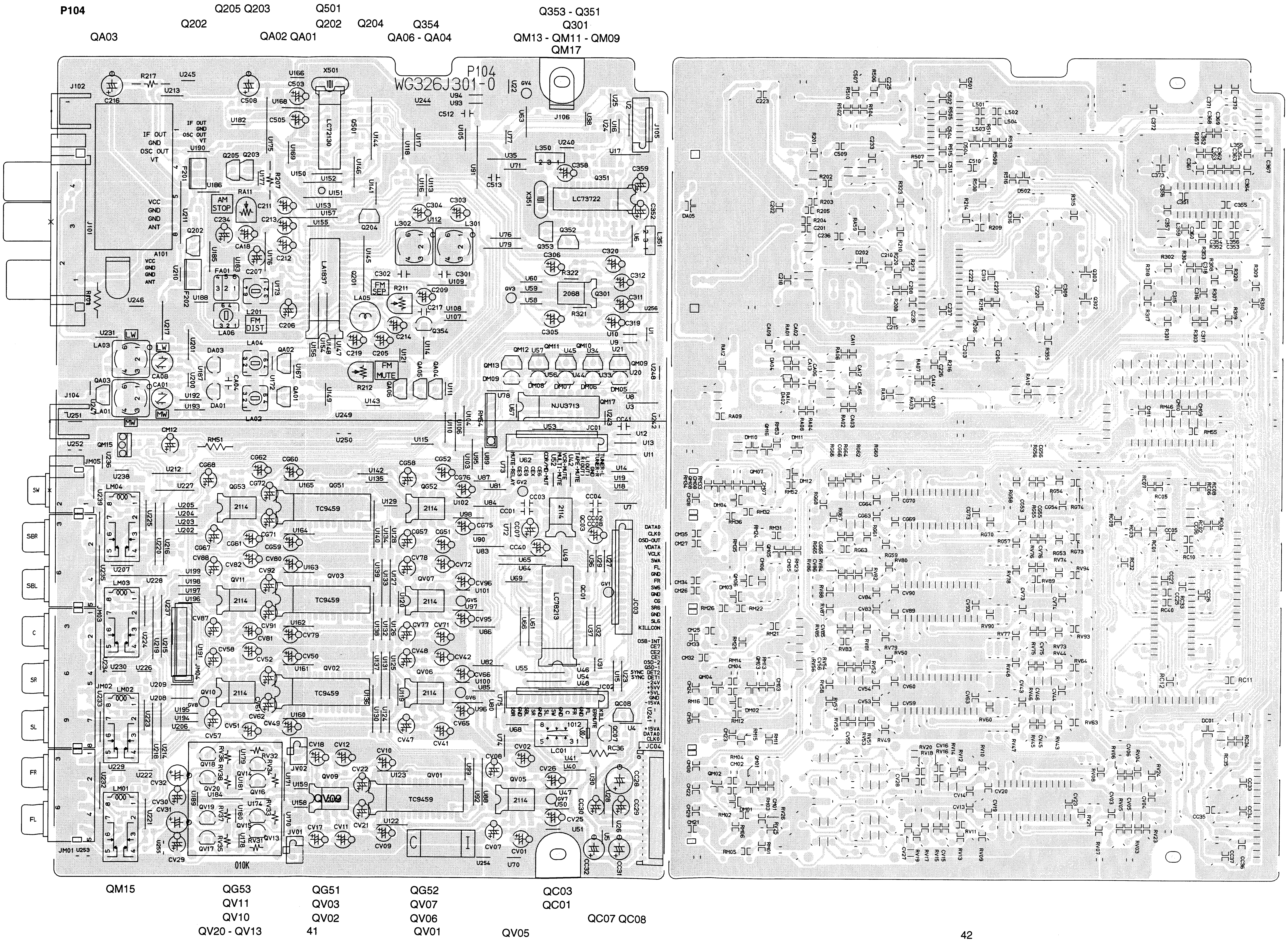
PZ04


WA326J202-2
S-VIDEO
PZ04
JZ06
JZ07
JZ08
JZ01
JZ02
JZ03
JZ09
JZ10
QZ07 QZ04
QZ08
QZ02
QZ21
QZ05
QZ06
QZ20
QZ26
QZ19
QZ11
QZ10
QZ22
QZ12 QZ13 QZ14 QZ09
QZ28
QZ19
QX02
QX03 QZ24
QX01 QX05 QX04 QZ25
QZ29
QX07 QX27 QZ16
QZ17
QZ18

PW54


QW52
QW53
QW54
QW51
WG326J302-0
PW54
JW54
JW51
U301
U303
U304
U305

P104


Q205 Q203
Q501
Q202
Q204
Q354
Q353 - Q351
Q301
QM13 - QM11 - QM09
QM17
QA03
Q202
QA02 QA01
QA06 - QA04
P104
WG326J301-0
QM15
QG53
QV11
QV10
QV20 - QV13
QG51
QV03
QV02
QG52
QV07
QV06
QV01
QV05
QC03
QC01
QC07 QC08

P704

QT03 QT01
QT09 QT13
QT19 QT23

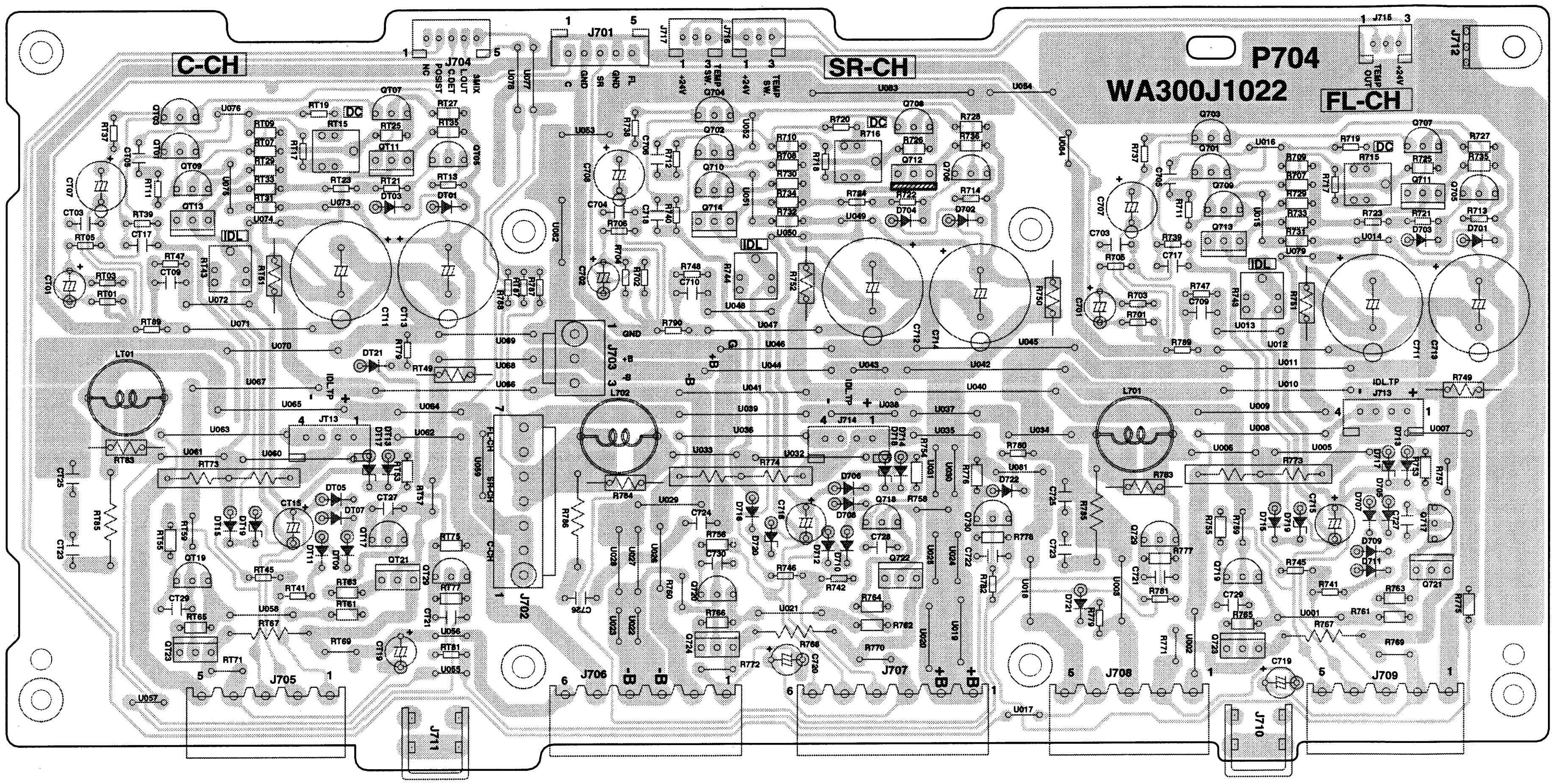
QT07
QT11 QT05
QT17 QT21 QT29

Q704 Q702
Q710 Q714
Q720 Q724

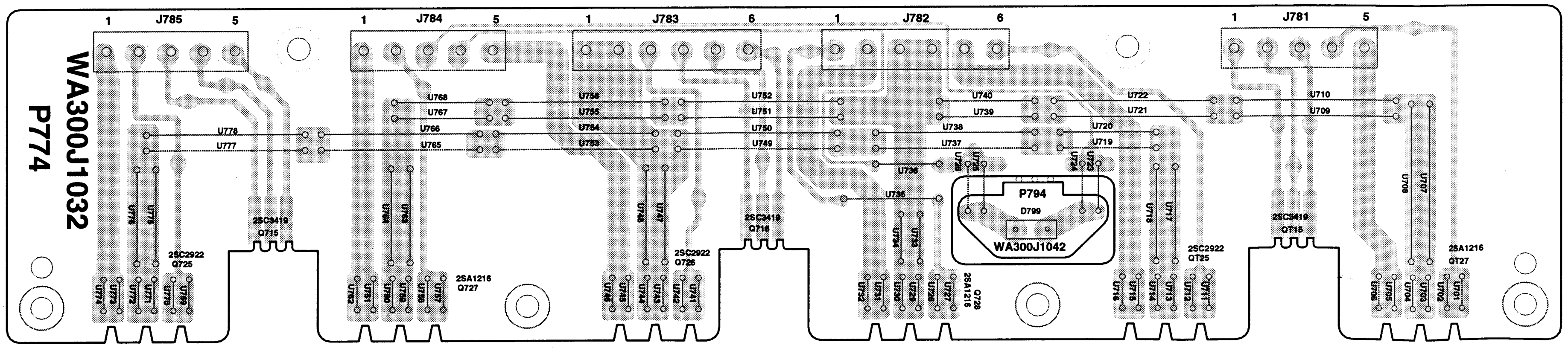
Q708
Q712 Q706
Q718 Q722 Q730

Q703 Q701
Q709 Q713
Q728 Q719

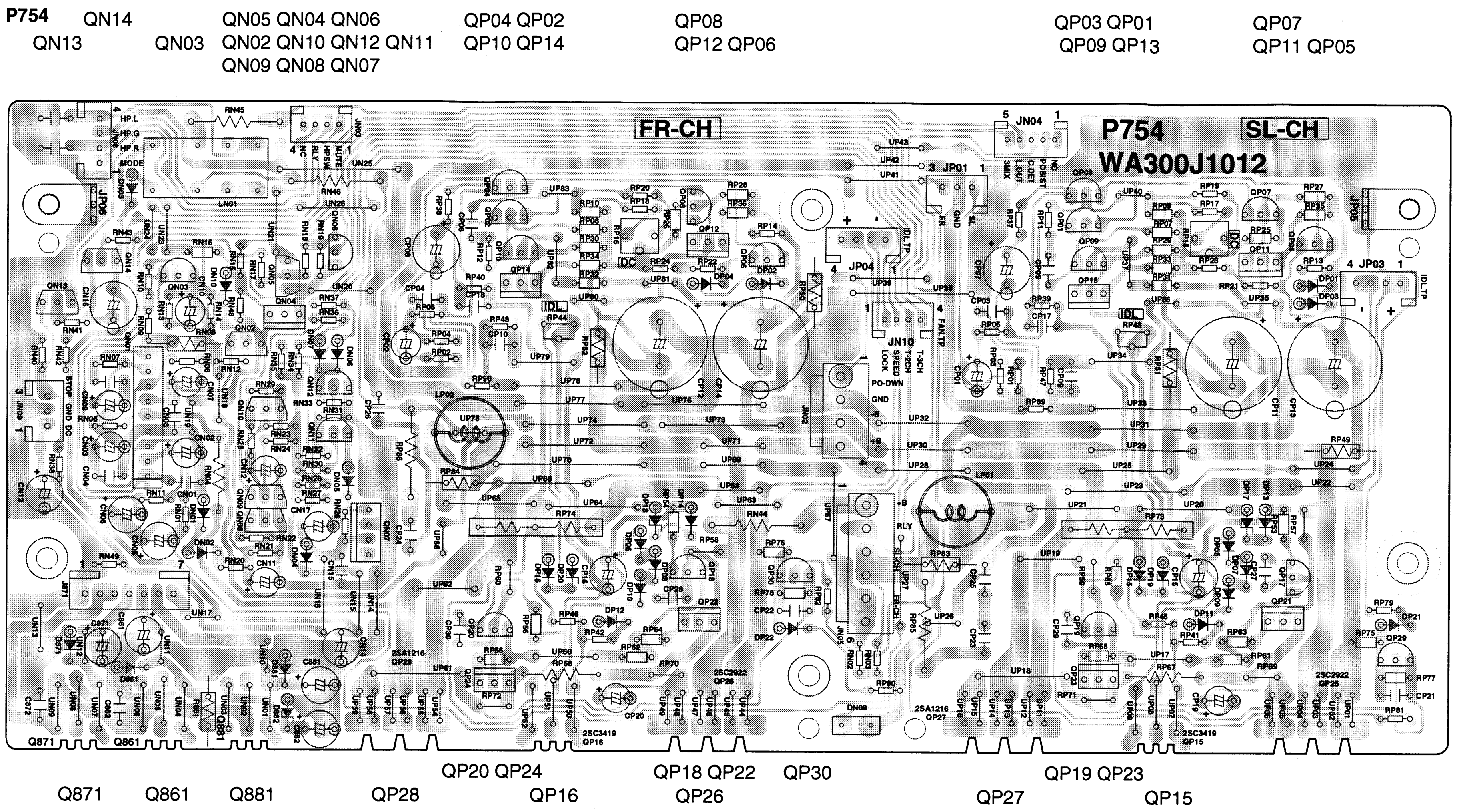
Q707
Q711 Q705
Q717 Q721

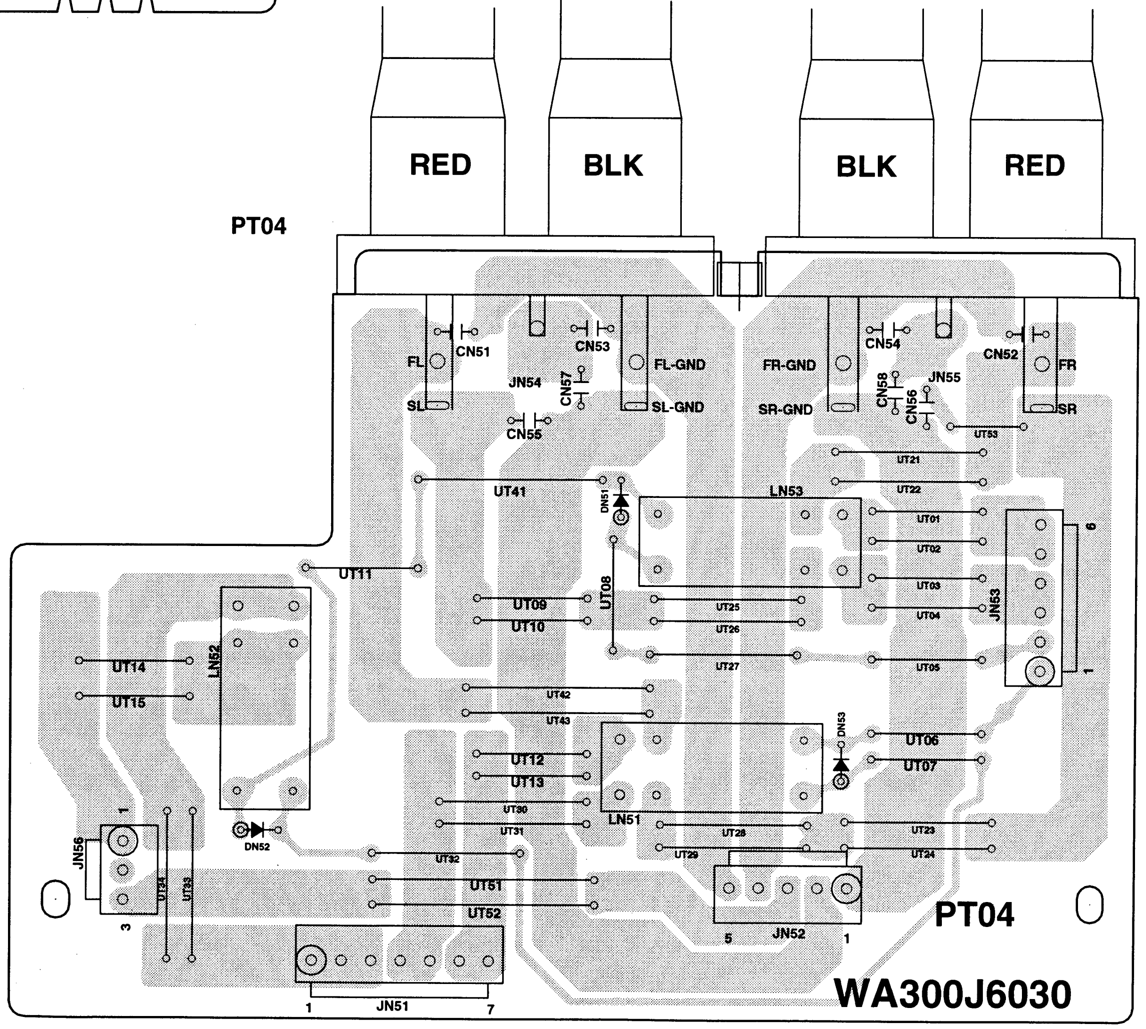

C-CH
SR-CH
FL-CH
P704
WA300J1022
J701
J704
J703
J702
J705
J706
J707
J708
J709
J710
J711
J712
J713
J714
J715
LT01
L701
L702
DC
IDL

P774 **P794**

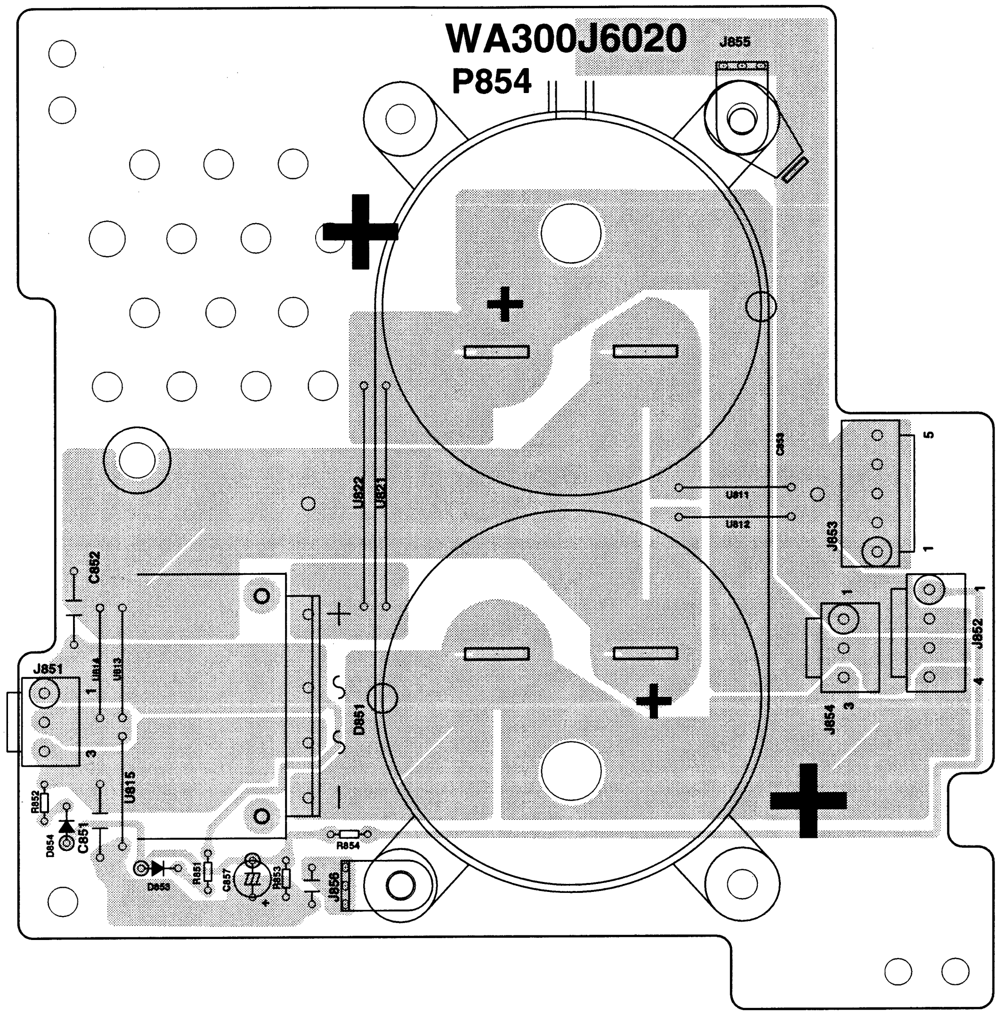

J785
J784
J783
J782
J781
WA300J1032
P774
P794
WA300J1042
D799
2SC3419
2SC2922
2SA1216

Q725 Q715 Q727 Q726 Q716 Q728 QT25 QT15 QT27

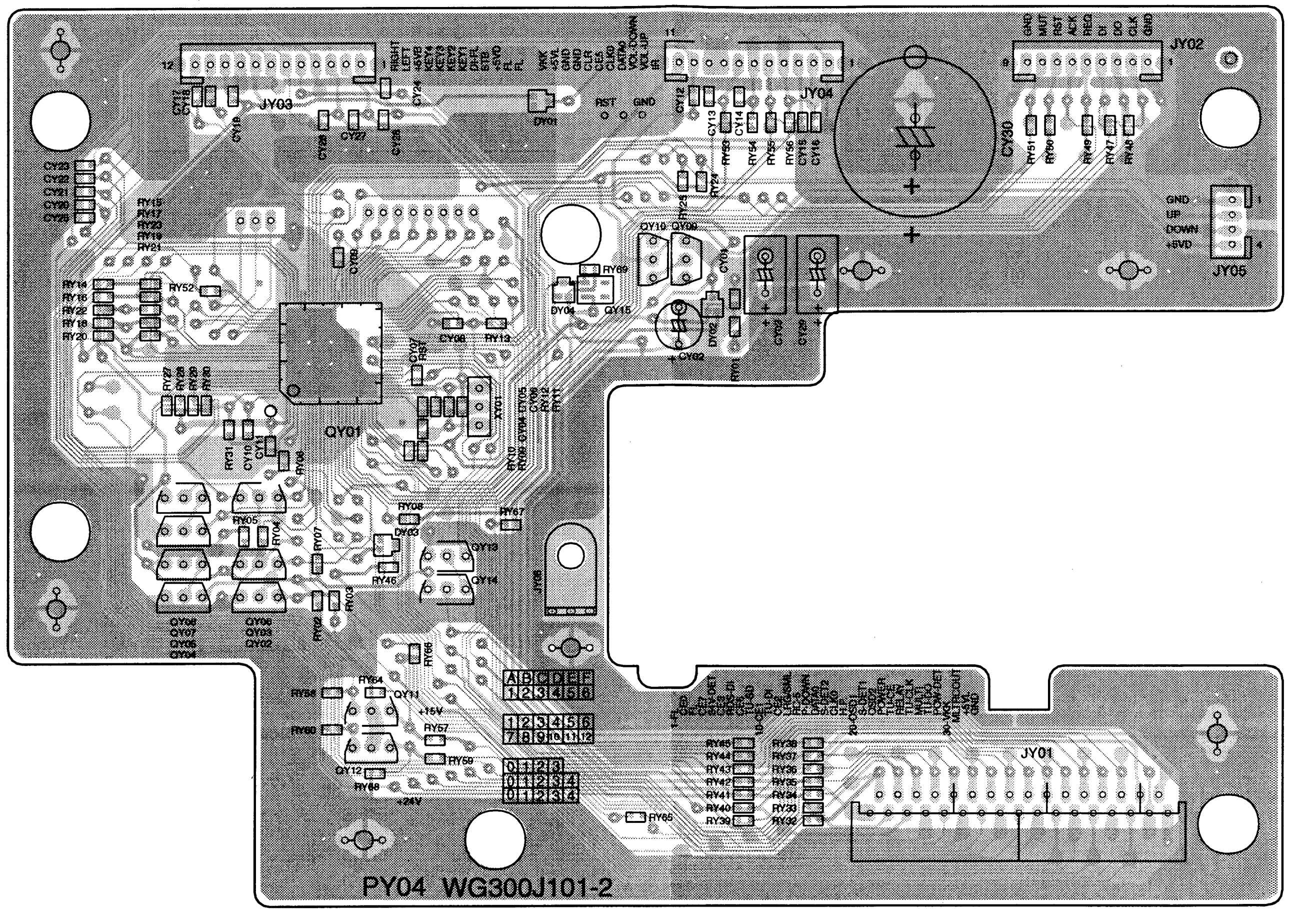

P754
QN14
QN13
QN03
QN05 QN04 QN06
QN02 QN10 QN12 QN11
QN09 QN08 QN07
QP04 QP02
QP10 QP14
QP08
QP12 QP06
QP03 QP01
QP09 QP13
QP07
QP11 QP05
FR-CH
P754
WA300J1012
SL-CH
Q871
Q861
Q881
QP28
QP20 QP24
QP16
QP18 QP22
QP26
QP30
QP27
QP19 QP23
QP15


RED
BLK
BLK
RED
PT04
FL
SL
FL-GND
SL-GND
FR-GND
SR-GND
FR
SR
JN51
JN52
JN53
JN56
PT04
WA300J6030

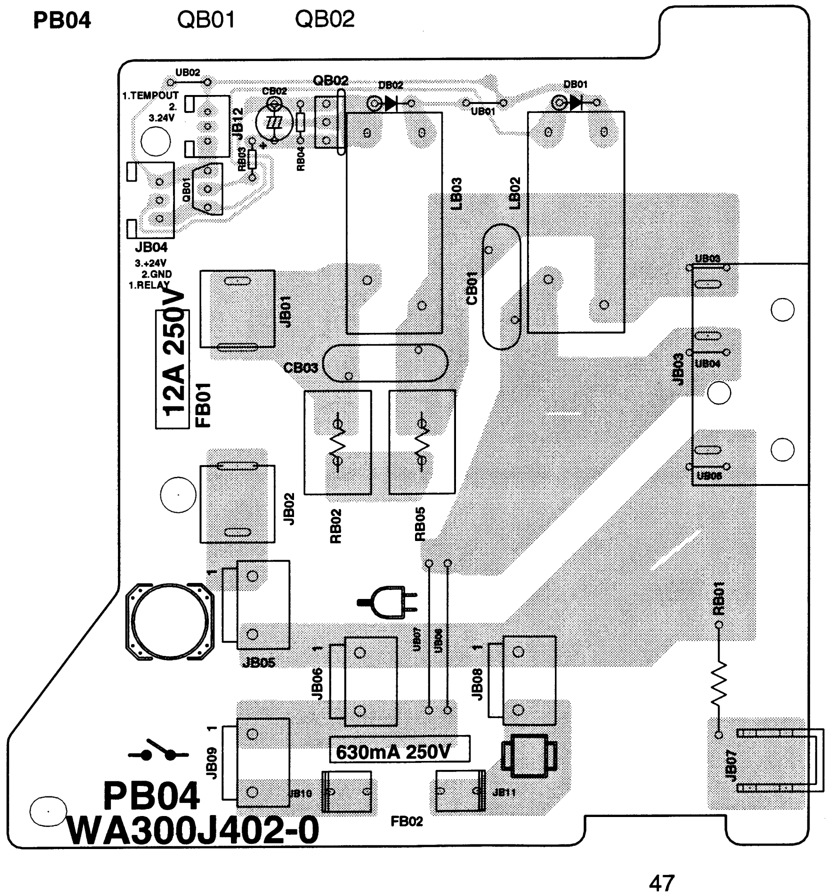
P854


WA300J6020
P854
J855
J853
J852
J854
J851
J856
C853
C852
C851
U811
U812
U813
U814
U815
U821
U822
D851
D853
D854
R851
R852
R853
R854
C857

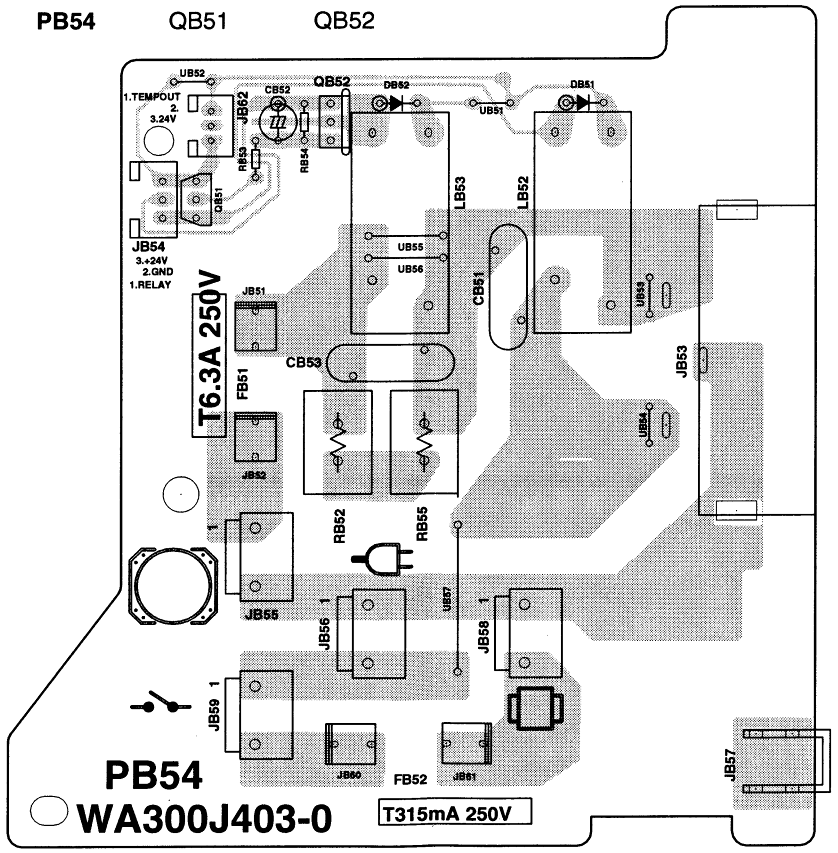
PY04 QY01 QY02 - QY08 QY13 QY14 QY11 QY12 QY15 QY10 QY09


JY02
JY03
JY04
JY05
JY01
JY06
CY30
QY01
QY09
QY10
QY11
QY12
QY13
QY14
QY15
GND
UP
DOWN
+5VD
+15V
+24V
PY04 WG300J101-2

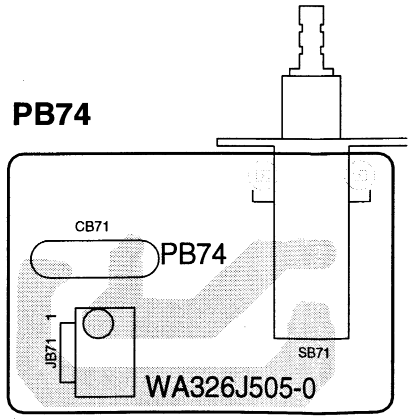
PB04 QB01 QB02


1.TEMPOUT
2.
3.24V
JB12
JB04
3.+24V
2.GND
1.RELAY
QB02
DB02
DB01
UB01
UB02
UB03
UB04
UB05
LB03
LB02
CB01
CB02
CB03
JB01
JB02
JB03
JB05
JB06
JB07
JB08
JB09
JB10
JB11
RB01
RB02
RB05
12A 250V
FB01
FB02
630mA 250V
PB04
WA300J402-0

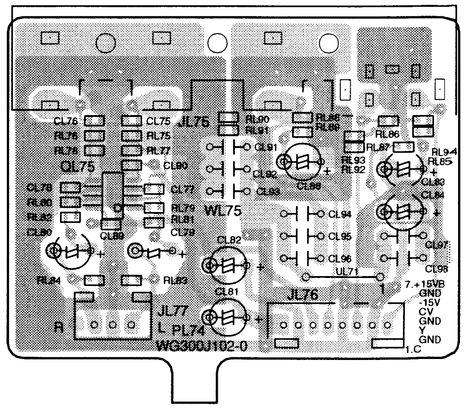
PB54 QB51 QB52


1.TEMPOUT
2.
3.24V
JB62
JB54
3.+24V
2.GND
1.RELAY
QB52
DB52
DB51
UB51
UB52
UB55
UB56
UB57
LB53
LB52
CB51
CB52
CB53
JB51
JB52
JB53
JB55
JB56
JB57
JB58
JB59
JB60
JB61
RB52
RB55
T6.3A 250V
FB51
FB52
T315mA 250V
PB54
WA300J403-0

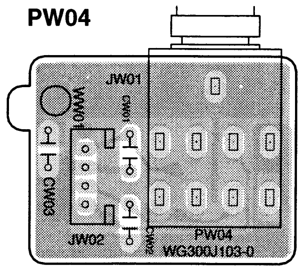
PB74


CB71
PB74
JB71
SB71
WA326J505-0

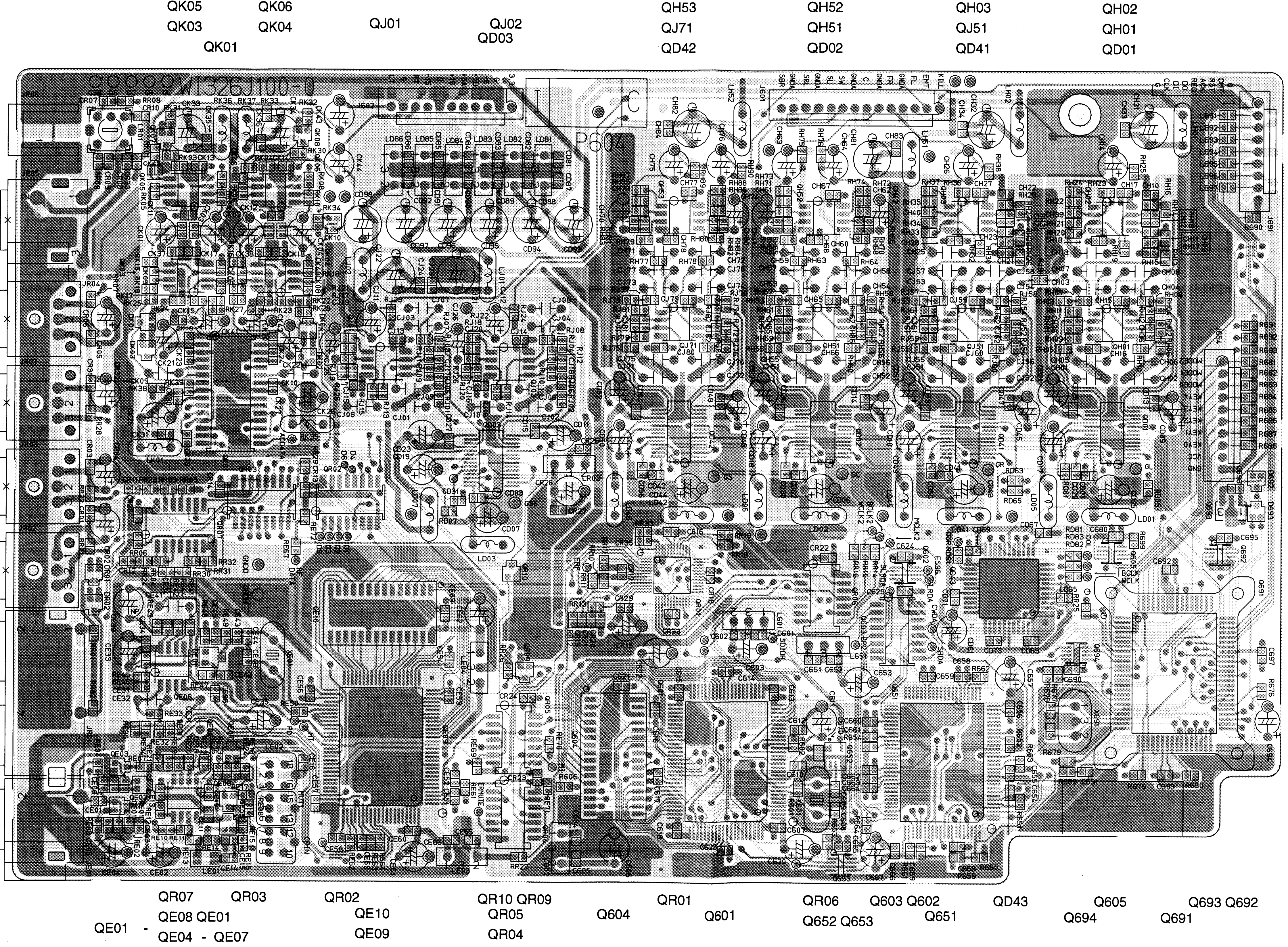
PL74 QL75


JL75
QL75
WL75
JL77
JL76
UL71
PL74
WG300J102-0
R
L
7.+15VB
GND
+15V
CV
GND
1.C

PW04

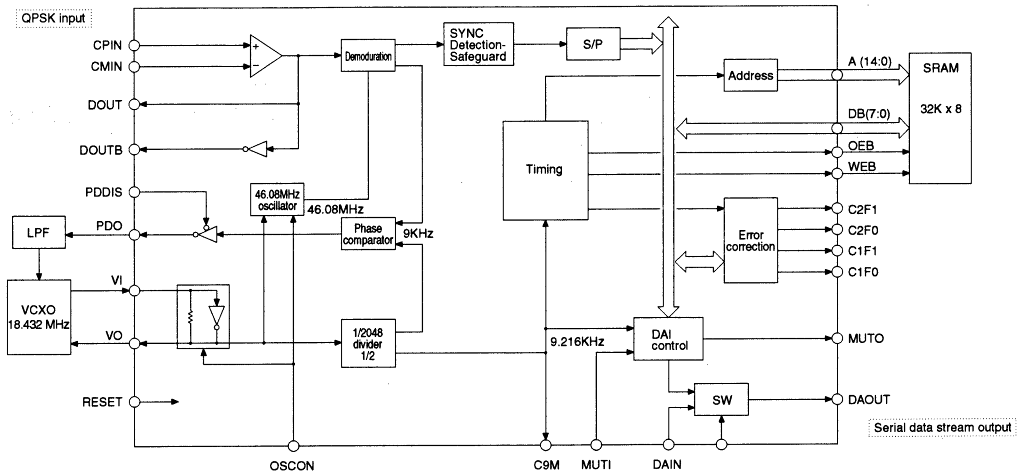

JW01
JW02
CW03
PW04
WG300J103-0

P604


QK05
QK03
QK01
QK06
QK04
QJ01
QJ02
QD03
QH53
QJ71
QD42
QH52
QH51
QD02
QH03
QJ51
QD41
QH02
QH01
QD01
QR07
QR03
QE08 QE01
QE01 -
QE04 - QE07
QR02
QE10
QE09
QR10 QR09
QR05
QR04
Q604
QR01
Q601
QR06
Q652 Q653
Q603 Q602
Q651
QD43
Q605
Q694
Q693 Q692
Q691
P604

6. IC DATA

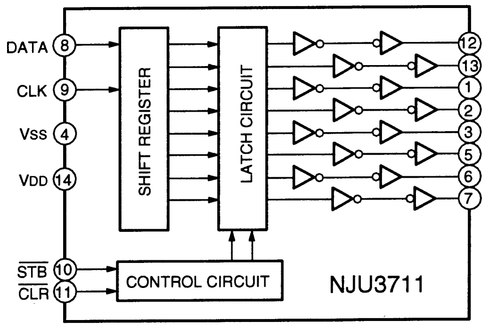
QE09:PM4007A


QPSK input
CPIN
CMIN
DOUT
DOUTB
PDDIS
PDO
LPF
VI
VCXO 18.432 MHz
VO
RESET
Demoduration
SYNC Detection-Safeguard
S/P
46.08MHz oscillator
46.08MHz
Phase comparator
9KHz
1/2048 divider 1/2
Timing
Address
A (14:0)
SRAM 32K x 8
DB(7:0)
OEB
WEB
Error correction
C2F1
C2F0
C1F1
C1F0
9.216KHz
DAI control
MUTO
SW
DAOUT
Serial data stream output
OSCON
C9M
MUTI
DAIN

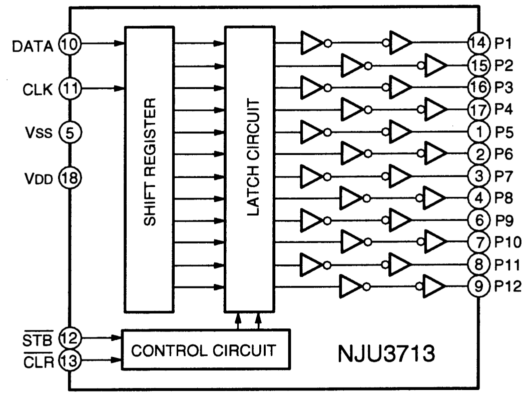
No.	Name	I/O	Function
1	GND	-	GND
2	VDD	-	+5VD
3	RESET	I	System Reset At "L" reset
4	OSCON	I	Oscillator control At"H" during normal operation At "L" during standby
5	DATA	I	TEST
6	MCK	I	TEST
7	MLTB	I	TEST
8	IDST	O	TEST
9	IDCK	O	TEST
10	IDO	O	TEST
11	TM0	I	TEST
12	ECCK	O	TEST
13	DEN	O	TEST
14	DRY	O	TEST
15	MSYC	O	TEST
16	TM1	I	TEST
17	A0	O	RAM A0
18	A1	O	RAM A1
19	A2	O	RAM A2
20	A3	O	RAM A3
21	A4	O	RAM A4
22	A5	O	RAM A5
23	TM2	I	TEST
24	TM3	I	TEST
25	XOUT	O	TEST
26	XIN	I	TEST
27	XEXT	I	TEST
28	GND	-	GND
29	VDD	-	+5VD
30	A6	O	RAM A6
31	A7	O	RAM A7
32	GND	-	GND
33	VDD	-	+5VD
34	A12	O	RAM A12
35	A14	O	RAM A14
36	WEB	O	RAM WEB
37	A13	O	RAM A13
38	A8	O	RAM A8
39	A9	O	RAM A9
40	GND	-	GND
41	A11	O	RAM A11
42	OEB	O	RAM OE
43	A10	O	RAM A10
44	DB7	B	RAM D7
45	DB6	B	RAM D6
46	DB5	B	RAM D5
47	DB4	B	RAM D4
48	DB3	B	RAM D3
49	DB2	B	RAM D2
50	DB1	B	RAM D1

No.	Name	I/O	Function
51	DB0	B	RAM D0
52	VDD	-	+5VD
53	GND	-	GND
54	TI1	I	TEST
55	VIN	I	VCXO input
56	VOUT	O	VCXO output
57	TI2	I	TEST
58	TI3	I	TEST
59	TLDB	I	TEST
60	TCK	I	TEST
61	TRP	O	TEST
62	TDO	O	TEST
63	PDO	O	Phase comparator output (3-state)
64	TI4	I	TEST
65	PDDIS	I	Control input for PDO out At "L" Output ON
66	MUTO	O	Muting output. Mutes at "H". Sets to "H" when MUTI = H or the AC-3 period cnanot be received.
67	TI5	I	TEST
68	VLDY	O	TEST
69	DASYO	O	TEST
70	DAOUT	O	Digital OUT (serial data stream output)
71	DAIN	I	Digital external input : Sets to DAOUT when DASEL is at "H"
72	DASEL	I	Selects digital OUT
73	TI8	I	TEST
74	C2F1	O	N.C.
75	C2F0	O	N.C.
76	C1F1	O	N.C.
77	C1F0	O	Displays C1 correction error status. Outputs error count at C1.
78	MUTI	I	Muting input. Mutes at "H".
79	VDD	-	+5VD
80	GND	-	GND
81	AVDD	1	+5VD
82	CPIN	I	Analog converter inverted input
83	CMIN	I	Analog converter inverted input
84	AGND	-	GND
85	TM4	I	TEST
86	VDD	-	+5VD
87	DIN	I	TEST
88	DOUT	O	Analog converter inverted output
89	DOUTB	O	Analog converter inverted reverse output
90	C9M	O	N.C.
91	GND	-	GND
92	WINGT	O	TEST
93	SYST0	O	TEST
94	SYST1	O	TEST
95	ADST0	O	TEST
96	ADST1	O	TEST
97	TM5	I	TEST
98	BUNRI	I	TEST
99	AGND	-	GND
100	AVDD	-	+5VD

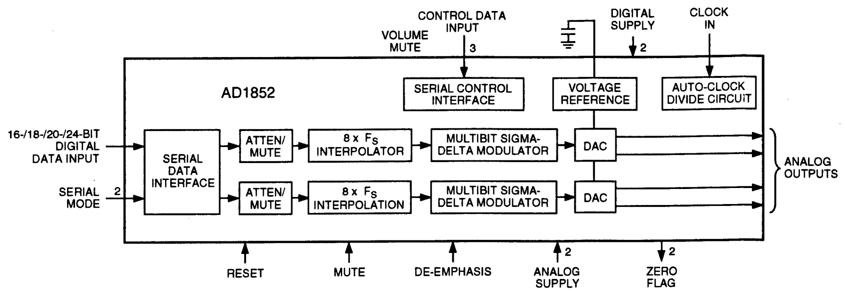
QU02:NJU3711


DATA 8
CLK 9
Vss 4
VDD 14
SHIFT REGISTER
LATCH CIRCUIT
12 P1
13 P2
1 P3
2 P4
3 P5
5 P6
6 P7
7 P8
STB 10
CLR 11
CONTROL CIRCUIT
NJU3711

QM07:NJU3713D


DATA 10
CLK 11
Vss 5
VDD 18
SHIFT REGISTER
LATCH CIRCUIT
14 P1
15 P2
16 P3
17 P4
1 P5
2 P6
3 P7
4 P8
6 P9
7 P10
8 P11
9 P12
STB 12
CLR 13
CONTROL CIRCUIT
NJU3713

QD01-QD03,QD41-QD43:AD1855

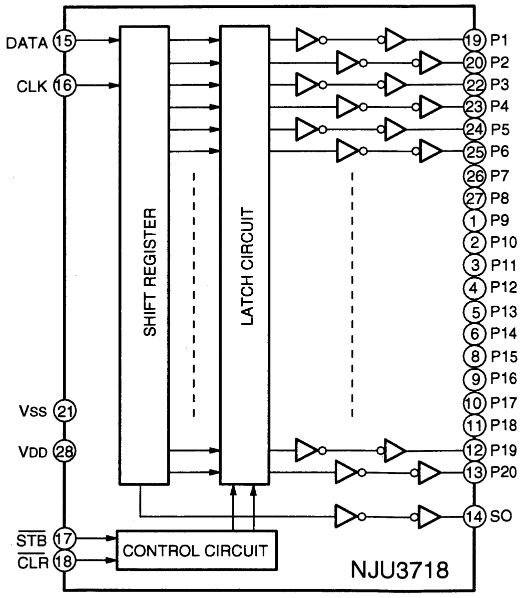

CONTROL DATA INPUT
VOLUME MUTE
3
DIGITAL SUPPLY
2
CLOCK IN
AD1852
SERIAL CONTROL INTERFACE
VOLTAGE REFERENCE
AUTO-CLOCK DIVIDE CIRCUIT
16-/18-/20-/24-BIT DIGITAL DATA INPUT
SERIAL MODE
2
SERIAL DATA INTERFACE
ATTEN/ MUTE
8 x F_S INTERPOLATOR
MULTIBIT SIGMA-DELTA MODULATOR
DAC
ATTEN/ MUTE
8 x F_S INTERPOLATION
MULTIBIT SIGMA-DELTA MODULATOR
DAC
ANALOG OUTPUTS
RESET
MUTE
DE-EMPHASIS
2
ANALOG SUPPLY
2
ZERO FLAG

Pin	In/Out	Pin Name	Description
1	I	DGND	Digital Ground.
2	I	MCLK	Master Clock Input. Connect to an external clock source at either 256 F_S, 384 F_S, 512 F_S, 768 F_S, or 1024 F_S.
3	I	CLATCH	Latch Input for Control Data. This input is rising-edge sensitive.
4	I	CCLK	Control Clock Input for Control Data. Control input data must be valid on the rising edge of CCLK. CCLK may be continuous or gated.
5	I	CDATA	Serial Control Input, MSB first, containing 16 bits of unsigned data per channel. Used for specifying channel-specific attenuation and mute.
6		NC	No Connect.
7	I	192/48	Selects 48 kHz (LO) or 192 kHz Sample Frequency.
8	O	ZEROR	Right Channel Zero Flag Output. This pin goes HI when Right Channel has no signal input for more than 1024 LR Clock Cycles.
9	I	DEEMP	De-Emphasis. Digital de-emphasis is enabled when this input signal is HI. This is used to impose a 50µs/15µs response characteristic on the output audio spectrum at an assumed 44.1 kHz sample rate. Curves for 32 kHz and 48 kHz sample rates may be selected via SPI control register.
10	I	96/48	Selects 48 kHz (LO) or 96 kHz Sample Frequency.
11, 15	I	AGND	Analog Ground.
12	O	OUTR+	Right Channel Positive Line Level Analog Output.
13	O	OUTRĐ	Right Channel Negative Line Level Analog Output.
14	O	FILTR	Voltage Reference Filter Capacitor Connection. Bypass and decouple the voltage reference with parallel 10µF and 0.1µF capacitors to the AGND.
16	O	OUTLĐ	Left Channel Negative Line Level Analog Output.
17	O	OUTL+	Left Channel Positive Line Level Analog Output.
18	I	AVDD	Analog Power Supply. Connect to Analog 5 V Supply.
19		FILTB	Filter Capacitor Connection. Connect 10µ F capacitor to AGND (Pin 15).
20	I	IDPM1	Input Serial Data Port Mode Control One. With IDPM0, defines 1 of 4 serial modes.
21	I	IDPM0	Input Serial Data Port Mode Control Zero. With IDPM1, defines 1 of 4 serial modes.
22	O	ZEROL	Left Channel Zero Flag Output. This pin goes HI when Left Channel has no signal input for more than 1024 LR Clock Cycles.
23	I	MUTE	Mute. Assert HI to mute both stereo analog outputs. DeassertLO for normal operation.
24	I	RESET	Reset. The AD1852 is reset on the rising edge of this signal. The serial control port registers are reset to the default values. Connect HI for normal operation.
25	I	L/RCLK	Left/Right Clock Input for Input Data. Must run continuously.
26	I	BCLK	Bit Clock Input for Input Data. Need not run continuously; may be gated or used in a burst fashion.
27	I	SDATA	Serial Input, MSB first, containing two channels of 16, 18, 20, and 24 bits of twos complement data per channel.
28	I	DVDD	Digital Power Supply Connect to digital 5 V supply.

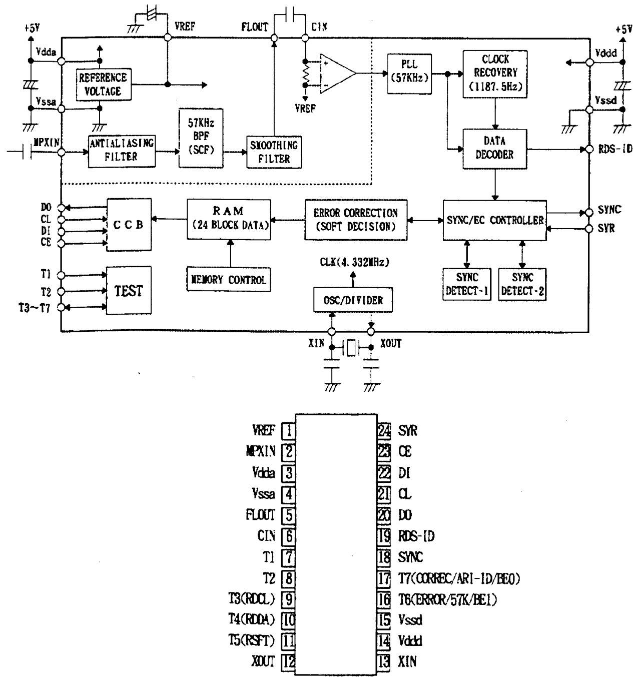
Table I. Serial Data Input Mode

IDPM1 (Pin 20)	IDPM0 (Pin 21)	Serial Data Input Format
0	0	Right-Justified
0	1	I^2S-Compatible
1	0	Left-Justified
1	1	DSP

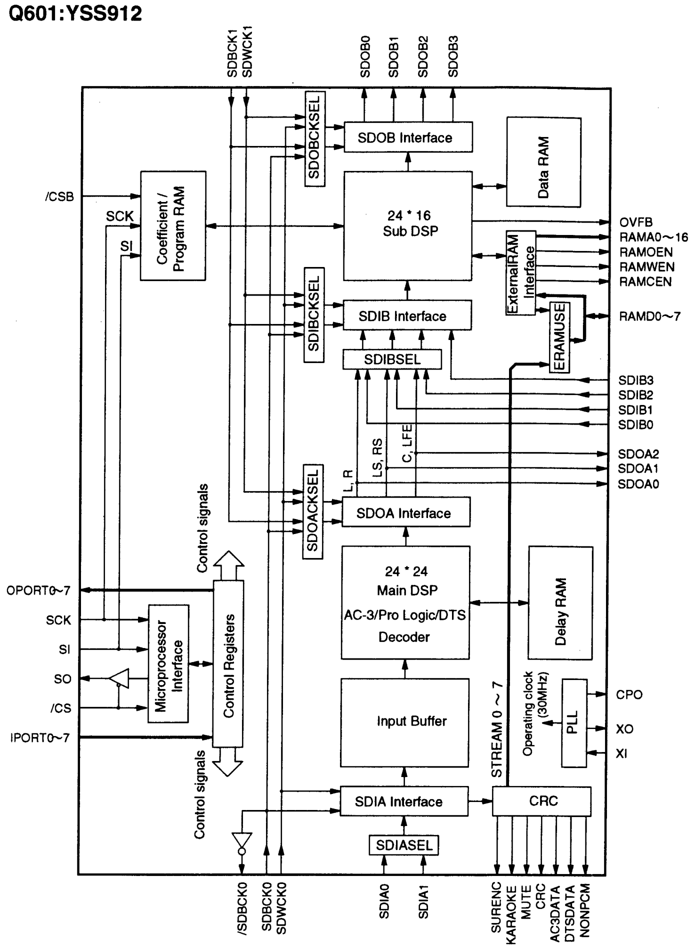
QL07:NJU3718


DATA 15
CLK 16
Vss 21
VDD 28
SHIFT REGISTER
LATCH CIRCUIT
19 P1
20 P2
22 P3
23 P4
24 P5
25 P6
26 P7
27 P8
1 P9
2 P10
3 P11
4 P12
5 P13
6 P14
8 P15
9 P16
10 P17
11 P18
12 P19
13 P20
14 SO
STB 17
CLR 18
CONTROL CIRCUIT
NJU3718

Q351:LC72720


+5V
VREF
FLOUT
CIN
+5V
Vdda
Vssa
MPXIN
REFERENCE VOLTAGE
ANTIALIASING FILTER
57KHz BPF (SCF)
SMOOTHING FILTER
VREF
PLL (57KHz)
CLOCK RECOVERY (1187.5Hz)
DATA DECODER
Vddd
Vssd
RDS-ID
DO
CL
DI
CE
CCB
RAM (24 BLOCK DATA)
ERROR CORRECTION (SOFT DECISION)
SYNC/EC CONTROLLER
SYNC
SYR
T1
T2
T3~T7
TEST
MEMORY CONTROL
CLK(4.332MHz)
OSC/DIVIDER
SYNC DETECT-1
SYNC DETECT-2
XIN
XOUT
VREF 1
MPXIN 2
Vdda 3
Vssa 4
FLOUT 5
CIN 6
T1 7
T2 8
T3(RDCL) 9
T4(RDDA) 10
T5(RSFT) 11
XOUT 12
24 SYR
23 CE
22 DI
21 CL
20 DO
19 RDS-ID
18 SYNC
17 T7(CORREC/ARI-ID/BE0)
16 T6(ERROR/57K/BE1)
15 Vssd
14 Vddd
13 XIN

Q601:YSS912

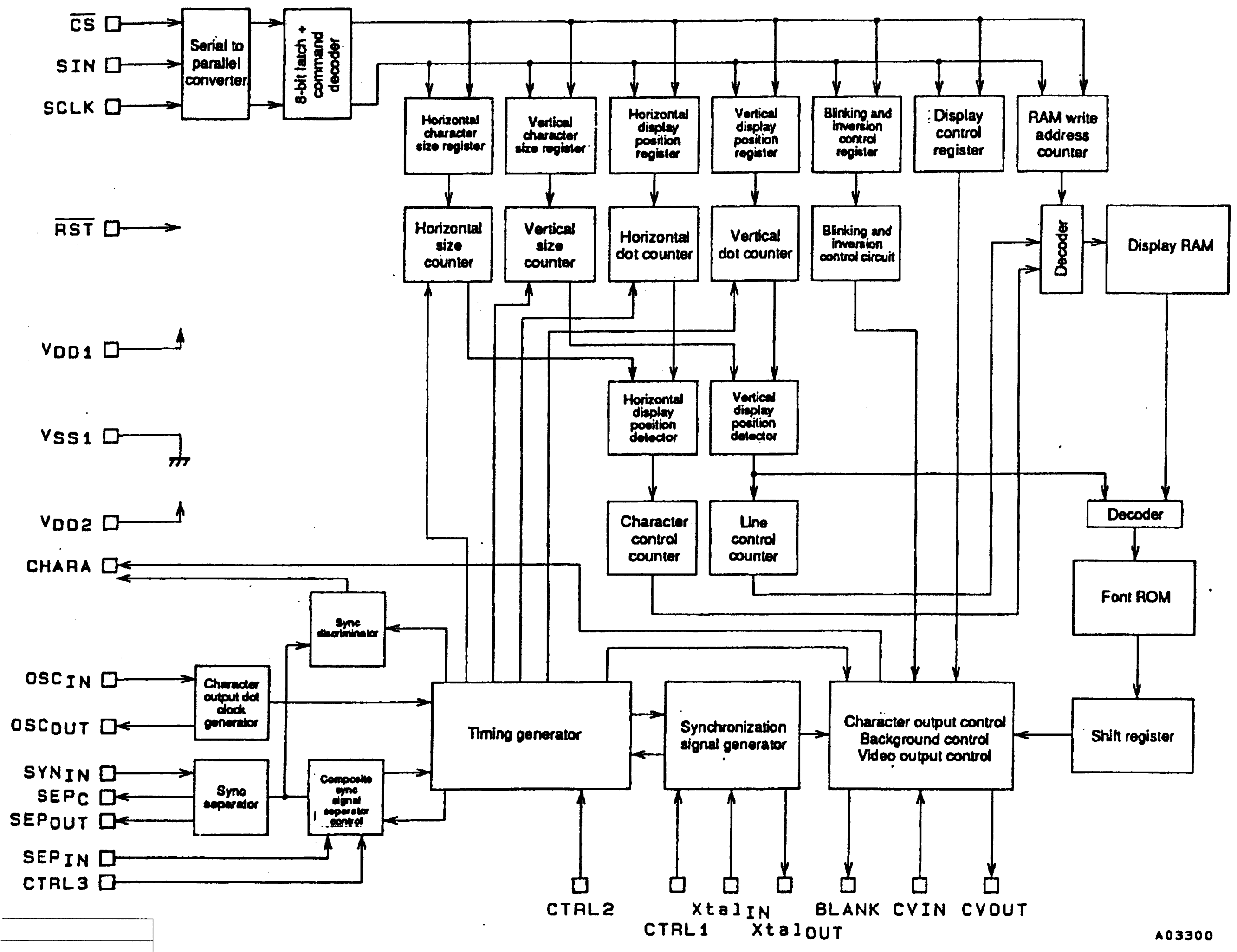

SDBCK1
SDWCK1
SDOB0
SDOB1
SDOB2
SDOB3
SDOBCKSEL
SDOB Interface
Data RAM
/CSB
SCK
SI
Coefficient / Program RAM
24 * 16 Sub DSP
OVFB
RAMA0~16
RAMOEN
RAMWEN
RAMCEN
ExternalRAM Interface
ERAMUSE
RAMD0~7
SDIBCKSEL
SDIB Interface
SDIBSEL
SDIB3
SDIB2
SDIB1
SDIB0
L, R
LS, RS
C, LFE
SDOA2
SDOA1
SDOA0
SDOACKSEL
SDOA Interface
Control signals
24 * 24 Main DSP AC-3/Pro Logic/DTS Decoder
Delay RAM
OPORT0~7
SCK
SI
SO
/CS
IPORT0~7
Microprocessor Interface
Control Registers
Input Buffer
STREAM 0 ~ 7
Operating clock (30MHz)
PLL
CPO
XO
XI
Control signals
SDIA Interface
CRC
SDIASEL
/SDBCK0
SDBCK0
SDWCK0
SDIA0
SDIA1
SURENC
KARAOKE
MUTE
CRC
AC3DATA
DTSDATA
NONPCM

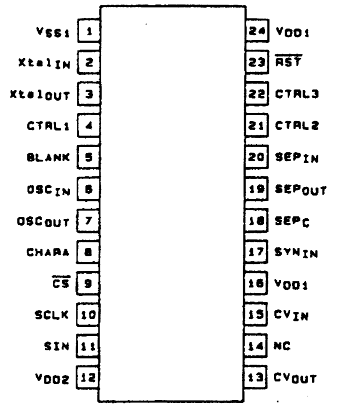
No.	NAME	I/O	FUNCTION
1	VDD1	-	+5V power supply (for I/Os)
2	RAMCEN	O	External SRAM Interface /CE
3	RAMA16	O	External SRAM Interface address 16
4	RAMA15	O	External SRAM Interface address 15
5	SDIB0	I+	PCM input 0 to Sub DSP
6	SDIB1	I+	PCM input 1 to Sub DSP
7	SDIB2	I+	PCM input 2 to Sub DSP
8	XI	I	Crystal oscillator connection or input external clock (12.288 MHz)
9	XO	o	Crystal oscillator connection
10	VSS	-	Ground
11	AVDD	-	+3.3V power supply (for PLL circuit)
12	SDIB3	I+	PCM input 3 to Sub DSP
13	TEST		Test terminal (to be open in normal use)
14	TEST		Test terminal (to be open in normal use)
15	OVFB	O	Detection of overflow at Sub DSP
16	DTSDATA	O	DTS data detection (Refer to "Status Register".)
17	AC3DATA	O	AC-3 data detection (Refer to "Status Register" .)
18	SDOB3	O	PCM output from Sub DSP
19	CPO	A	Output terminal for PLL, to be connected to ground through the external analog filter circuit. (Refer to "External Circuit for PLL" .)
20	AVSS	-	Ground (for PLL circuit)
21	VDD2	-	+3.3V power supply (for core logic)
22	SDOA2	o	PCM output from Main DSP (C, LFE)
23	SDOA1	O	PCM output from Main DSP (LS, RS)
24	SDOA0	O	PCM output from Main DSP (L, R)
25	RAMA14	O	External SRAM Interface address 14
26	RAMA13	O	External SRAM Interface address 13
27	RAMA12	O	External SRAM Interface address 12
28	RAMA11	O	External SRAM Interface address 11
29	RAMA10	O	External SRAM Interface address 10
30	VSS	-	Ground
31	VDD1	-	+5V power supply (for I/Os)
32	OPORT0	O	Output port for general purpose. (Refer to " OPORT Register")
33	OPORT1	O	Output port for general purpose. (Refer to " OPORT Register")
34	OPORT2	O	Output port for general purpose. (Refer to " OPORT Register")
35	OPORT3	O	Output port for general purpose. (Refer to " OPORT Register")
36	OPORT4	O	Output port for general purpose. (Refer to " OPORT Register")
37	OPORT5	O	Output port for general purpose. (Refer to " OPORT Register")
38	OPORT6	O	Output port for general purpose. (Refer to " OPORT Register")
39	OPORT7	O	Output port for general purpose. (Refer to " OPORT Register")
40	VSS	-	Ground
41	VDD2	-	+3.3V power supply (for core logic)
42	RAMA9	O	External SRAM interface address 9
43	RAMA8	O	External SRAM interface address 8
44	RAMA7	O	External SRAM interface address 7
45	SDOB2	O	PCM output from Sub DSP
46	SDOB1	O	PCM output from Sub DSP
47	SDOB0	O	PCM output from Sub DSP
48	SDBCK1	I+	Bit clock input for SDOA, SDIB, SDOB. (Refer to " SDOA, SDIB, SDOB Register")
49	SDWCK1	I+	Word clock input for SDOA, SDIB, SDOB. (Refer to " SDOA, SDIB, SDOB Register")
50	VSS	-	Ground

No.	NAME	I/O	FUNCTION
51	VDD2	-	+3.3V power supply (for core logic)
52	NONPCM	O	Detection of non PCM data. (Refer to " Status Register")
53	CRC	O	Detection of AC-3 CRC error. (Refer to " Status Register")
54	MUTE	O	Detection of auto-mute. (Refer to " Status Register")
55	KARAOKE	O	Detection of AC-3 karaoke data. (Refer to " Status Register")
56	SURENC	O	Detection of AC-3 2/0 mode Dolby surround encoded input (Refer to " Status Register")
57	/SDBCK0	O	Inverted SDBCKO clock output (refer to " Block diagram")
58	RAMA6	O	External SRAM Interface address 6
59	RAMA5	O	External SRAM Interface address 5
60	VSS	-	Ground
61	RAMA4	O	External SRAM Interface address 4
62	/IC	Is	Initial clear
63	TEST		Test terminal (to be open in normal use)
64	RAMA3	O	External SRAM Interface address 3
65	/CSB	Is+	Sub DSP Chip select
66	/CS	Is	Microprocessor interface Chip select
67	SO	Ot	Microprocessor interface Serial data output
68	SI	Is	Microprocessor interface/Sub DSP Serial data input
69	SCK	Is	Microprocessor interface/Sub DSP clock input
70	RAMA2	O	External SRAM Interface address 2
71	VDD1	-	+5V power supply (for I/Os)
72	RAMD0	I+/O	External SRAM Interface data (STREAM 0 output when External SRAM is not in use)
73	RAMD1	I+/O	External SRAM Interface data (STREAM 1 output when External SRAM is not in use)
74	RAMD2	I+/O	External SRAM Interface data (STREAM 2 output when External SRAM is not in use)
75	RAMD3	I+/O	External SRAM Interface data (STREAM 3 output when External SRAM is not in use)
76	RAMD4	I+/O	External SRAM Interface data (STREAM 4 output when External SRAM is not in use)
77	RAMD5	I+/O	External SRAM Interface data (STREAM 5 output when External SRAM is not in use)
78	RAMD6	I+/O	External SRAM Interface data (STREAM 6 output when External SRAM is not in use)
79	RAMD7	I+/O	External SRAM Interface data (STREAM 7 output when External SRAM is not in use)
80	VSS	-	Ground
81	VDD2	-	+3.3V power supply (for core logic)
82	SDWCK0	I	Word clock input for SDIA, SDOA, SDIB, SDOB (Refer to " SDIA, SDOA, SDIB, SDOB Register")
83	SDBCK0	I	Bit clock input for SDIA SDOA SDIB SDOB (Refer to " SDIA, SDOA, SDIB, SDOB Register")
84	SDIA0	I	AC-3/DTS bitstream (or PCM) data input for Main DSP (Refer to " SDIA Register")
85	SDIA1	I	AC-3/DTS bitstream (or PCM) data input for Main DSP (Refer to " SDIA Register")
86	RAMA1	O	External SRAM Interface address 1
87	RAMA0	O	External SRAM Interface address 0
88	RAMWEN	O	External SRAM Interface /WE
89	RAMOEN	O	External SRAM Interface /OE
90	VSS	-	Ground
91	VDD2	-	+3.3V power supply (for core logic)
92	IPORT7	I+	Input port for general purpose (Refer to " IPORT Register")
93	IPORT6	I+	Input port for general purpose (Refer to " IPORT Register")
94	IPORT5	I+	Input port for general purpose (Refer to " IPORT Register")
95	IPORT4	I+	Input port for general purpose (Refer to " IPORT Register")
96	IPORT3	I+	Input port for general purpose (Refer to " IPORT Register")
97	IPORT2	I+	Input port for general purpose (Refer to " IPORT Register")
98	IPORT1	I+	Input port for general purpose (Refer to " IPORT Register")
99	IPORT0	I+	Input port for general purpose (Refer to " IPORT Register")
100	VSS		Ground

Note) Is : Schmidt trigger input terminal
I+ : Input terminal with a pull-up resistor
O : Digital output terminal
Ot : Tri-state digital output terminal
A : Analog terminal

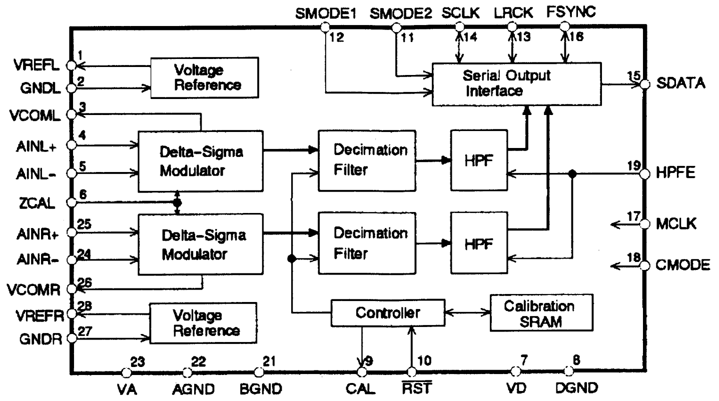
QL09,QZ11:LC74781

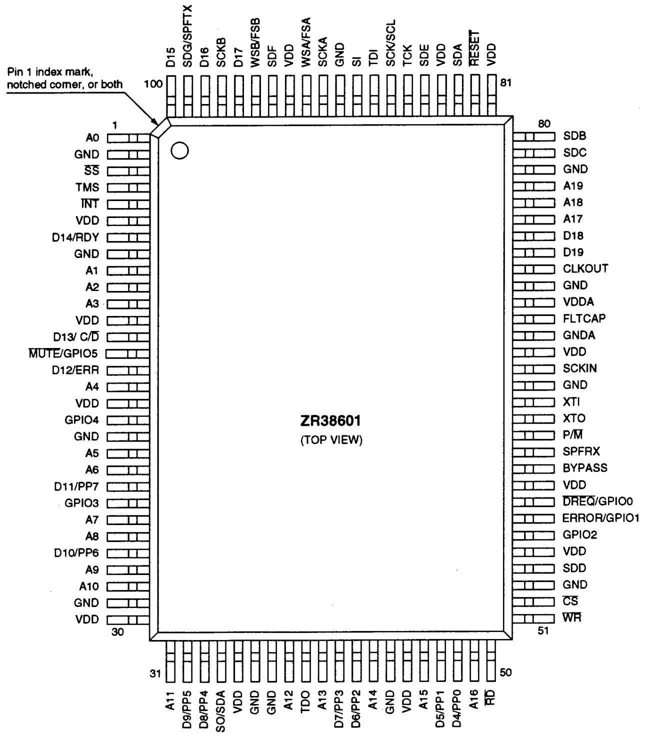

$\overline{CS}$
SIN
SCLK
Serial to parallel converter
8-bit latch + command decoder
Horizontal character size register
Vertical character size register
Horizontal display position register
Vertical display position register
Blinking and inversion control register
Display control register
RAM write address counter
$\overline{RST}$
Horizontal size counter
Vertical size counter
Horizontal dot counter
Vertical dot counter
Blinking and inversion control circuit
Decoder
Display RAM
V$_{DD1}$
V$_{SS1}$
Horizontal display position detector
Vertical display position detector
V$_{DD2}$
Character control counter
Line control counter
Decoder
Font ROM
CHARA
Sync discriminator
OSC$_{IN}$
OSC$_{OUT}$
Character output dot clock generator
Timing generator
Synchronization signal generator
Character output control Background control Video output control
Shift register
SYN$_{IN}$
SEP$_{C}$
SEP$_{OUT}$
Sync separator
Composite sync signal separator control
SEP$_{IN}$
CTRL3
CTRL2
CTRL1
Xtal$_{IN}$
Xtal$_{OUT}$
BLANK
CVIN
CVOUT
A03300


V$_{SS1}$ 1
Xtal$_{IN}$ 2
Xtal$_{OUT}$ 3
CTRL1 4
BLANK 5
OSC$_{IN}$ 6
OSC$_{OUT}$ 7
CHARA 8
$\overline{CS}$ 9
SCLK 10
SIN 11
V$_{DD2}$ 12
24 V$_{DD1}$
23 $\overline{RST}$
22 CTRL3
21 CTRL2
20 SEP$_{IN}$
19 SEP$_{OUT}$
18 SEP$_{C}$
17 SYN$_{IN}$
16 V$_{DD1}$
15 CV$_{IN}$
14 NC
13 CV$_{OUT}$

QK01:AK5392

No.	Pin Name	I/O	Function
1	VREFL	O	Lch Reference Voltage Pin, 3.75V Normally connected to GNDL with a 10uF electrolytic capacitor and a 0.1uF ceramic capacitor
2	GNDL	-	Lch Reference Ground Pin, 0V
3	VCOML	O	Lch Common Voltage Pin, 2.5V
4	AINL+	I	Lch Analog positive input Pin
5	AINL-	I	Lch Analog negative input Pin
6	ZCAL	I	Zero Calibration Control Pin This pin controls the calibration reference signal. "L":VCOML and VCOMR "H":Analog Input Pins(AINL±,AINR±)
7	VD	-	Digital Power Supply Pin, 3.3V
8	DGND	-	Digital Ground Pin, 0V
9	CAL	O	Calibration Active Signal Pin "H" means the offset calibration cycle is in progress. Offset calibration starts when $\overline{\text{RST}}$ goes "H". CAL goes "L" after 8704 LRCK cycles.
10	$\overline{\text{RST}}$	I	eset Pin When "L", Digital section is powered-down. Upon returning "H", an offset calibration cycle is started. An offset calibration cycle should always be initiated after power-up.
11 12	SMODE2 SMODE1	I I	Serial Interface Mode Select Pin MSB first, 2's compliment. SMODE2 SMODE1 MODE LRCK L L Slave mode : MSB justified : H/L L H Master mode : Similar to I2S : H/L H L Slave mode : I2S : L/H H H Master mode : I2S : L/H
13	LRCK	I/O	Left/Right Channel Select Clock Pin LRCK goes "H" at SMODE2="L" and "L" at SMODE2="H" during reset when SMODE1 "H".
14	SCLK	I/O	Serial Data Clock Pin Data is clocked out on the falling edge of SCLK. Slave mode: SCLK requires more than 48fs clock. Master mode: SCLK outputs a 128fs clock. SCLK stays "L" during reset.
15	SDATA	O	Serial Data Output Pin MSB first, 2's complement. SDATA stays "L" during reset.
16	FSYNC	I/O	Frame Synchronization Signal Pin Slave mode: When "H", the data bits are clocked out on SDATA. Master mode: FSYNC outputs 2fs clock. FSYNC stays "L" during reset.
17	CLK	I	Master Clock Input Pin CMODE="H":384fs CMODE="L":256fs
18	CMODE	I	Master Clock Select Pin "L": CLK=256fs (12.288MHz @fs=48kHz) "H": CLK=384fs (18.432MHz @fs=48kHz)
19	HPFE	I	High Pass Filter Enable Pin "L": Disable "H": Enable
20	TEST	I	Test Pin Should be connected DGND.
21	BGND	-	Substrate Ground Pin, 0V
22	AGND	-	Analog Ground Pin, 0V
23	VA	-	Analog Supply Pin, 5V
24	AINR-	I	Rch Analog negative input Pin
25	AINR+	I	Rch Analog positive input Pin
26	VCOMR	O	Rch Common Voltage Pin, 2.5V
27	GNDR	-	Rch Reference Ground Pin, 0V
28	VREFR	O	Rch Reference Voltage Pin, 3.75V Normally connected to GNDR with a 10uF electrolytic capacitor and a 0.1uF ceramic capacitor


SMODE1
SMODE2
SCLK
LRCK
FSYNC
12
11
14
13
16
VREFL
GNDL
VCOML
AINL+
AINL-
ZCAL
AINR+
AINR-
VCOMR
VREFR
GNDR
1
2
3
4
5
6
25
24
26
28
27
Voltage Reference
Delta-Sigma Modulator
Decimation Filter
HPF
Serial Output Interface
Controller
Calibration SRAM
Voltage Reference
15
SDATA
19
HPFE
17
MCLK
18
CMODE
23
22
21
9
10
7
8
VA
AGND
BGND
CAL
RST
VD
DGND


Pin 1 index mark, notched corner, or both
ZR38601
(TOP VIEW)
1
30
31
50
51
80
81
100
A0
GND
SS
TMS
INT
VDD
D14/RDY
GND
A1
A2
A3
VDD
D13/ C/D
MUTE/GPIO5
D12/ERR
A4
VDD
GPIO4
GND
A5
A6
D11/PP7
GPIO3
A7
A8
D10/PP6
A9
A10
GND
VDD
A11
D9/PP5
D8/PP4
SO/SDA
VDD
GND
GND
A12
TDO
A13
D7/PP3
D6/PP2
A14
GND
VDD
A15
D5/PP1
D4/PP0
A16
RD
WR
CS
GND
SDD
VDD
GPIO2
ERROR/GPIO1
DREQ/GPIO0
VDD
BYPASS
SPFRX
P/M
XTO
XTI
GND
SCKIN
VDD
GNDA
FLTCAP
VDDA
GND
CLKOUT
D19
D18
A17
A18
A19
GND
SDC
SDB
VDD
RESET
SDA
VDD
SDE
TCK
SCK/SCL
TDI
SI
GND
SCKA
WSA/FSA
VDD
SDF
WSB/FSB
D17
SCKB
D16
SDG/SPFTX
D15

Q651:ZR38601

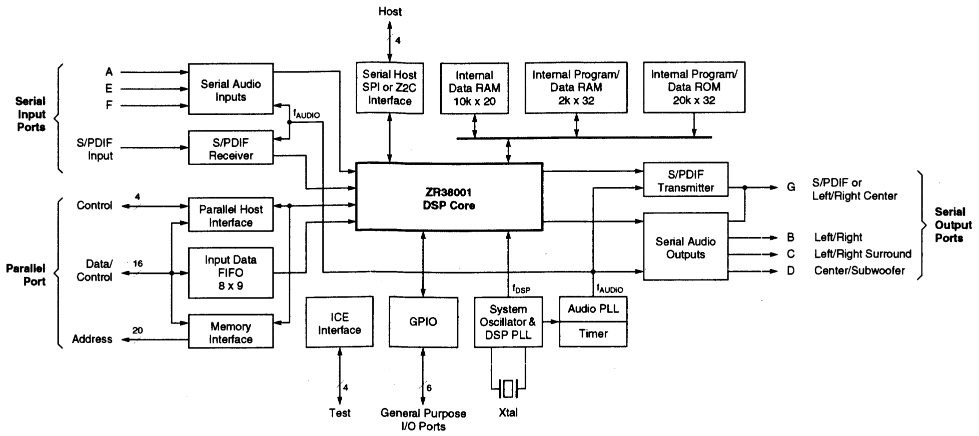

Host
4
Serial Input Ports
A
E
F
S/PDIF Input
Serial Audio Inputs
S/PDIF Receiver
f_AUDIO
Serial Host SPI or Z2C Interface
Internal Data RAM 10k x 20
Internal Program/ Data RAM 2k x 32
Internal Program/ Data ROM 20k x 32
Parallel Port
Control
4
Data/ Control
16
Address
20
Parallel Host Interface
Input Data FIFO 8 x 9
Memory Interface
ZR38001 DSP Core
S/PDIF Transmitter
Serial Audio Outputs
G
S/PDIF or Left/Right Center
B
Left/Right
C
Left/Right Surround
D
Center/Subwoofer
Serial Output Ports
ICE Interface
GPIO
System Oscillator & DSP PLL
Audio PLL
Timer
f_DSP
f_AUDIO
4
Test
6
General Purpose I/O Ports
Xtal

Figure 5. ZR38601 Simplified Block Diagram

ZR38601 Signal Description Summary

Name	Number	Type [1]	Description
			Parallel Port (40)
A[19:0]	20	O	Address bus of parallel port
D[19:15]	5	I/O	Data bus of parallel port when selected for external memory ($P/\overline{M}$ = 0)
D14/RDY	1	I/O or O	Data bus ($P/\overline{M}$ = 0) or Ready output signal of parallel port when selected for parallel I/O ($P/\overline{M}$ = 1)
D13/ C/$\overline{D}$	1	I/O or I	Data bus ($P/\overline{M}$ = 0) or Command/Data select input of parallel port when selected for parallel I/O ($P/\overline{M}$ = 1)
D12/ERR	1	I/O or I	Data bus ($P/\overline{M}$ = 0) or Error input signal of parallel port when selected for parallel I/O ($P/\overline{M}$ = 1)
D[11:4]/PP[7:0]	8	I/O	Data bus of parallel port when selected for external memory ($P/\overline{M}$ = 0) or Parallel Port I/O ($P/\overline{M}$ = 1)
$\overline{\text{CS}}$	1	I/O	Chip Select output for external memory or Chip Select input for parallel I/O
$\overline{\text{RD}}$	1	I/O	Read enable output for external memory or Read enable input for parallel I/O
$\overline{\text{WR}}$	1	I/O	Write enable output for external memory or Write enable input for parallel I/O
$P/\overline{M}$	1	I	Parallel I/O or Memory select for parallel port. Determined at time of $\overline{\text{RESET}}$.
			Serial Ports (13)
SPFRX	1	I	S/PDIF Receiver input port
SDA, SDE, SDF	3	I	Serial Data inputs. Ports A, E and F.
WSA/FSA	1	I/O	Word Select or Frame Synchronization for input ports. An output when a master, an input when a slave.
SCKA	1	I/O	Serial Clock for input ports. An output when a master, an input when a slave.
SDB	1	O	Serial left and right Data output. Port B. Also, at $\overline{\text{RESET}}$ defines SPI/$\overline{\text{Z2C}}$ for host serial interface.
SDC	1	O	Serial left and right surround Data output. Port C. Also, at $\overline{\text{RESET}}$ defines $\overline{\text{Z2CADR[0]}}$ of Z2C address.
SDD	1	O	Serial center and sub-woofer Data output. Port D. Also, at $\overline{\text{RESET}}$ defines $\overline{\text{Z2CADR[1]}}$ of Z2C address.
SDG/SPFTX	1	O	Serial Data output. Port G or S/PDIF Transmitter port. Also, at $\overline{\text{RESET}}$ defines the SCKP value.
WSB/FSB	1	I/O	Word Select or Frame Synchronization for output ports. An output when a master, an input when a slave.
SCKB	1	I/O	Serial Clock for output ports. An output when a master, an input when a slave.
SCKIN	1	I/O	Serial master Clock output or master clock Input for output ports
			General Purpose Ports (6)
$\overline{\text{MUTE}}$/GPIO5	1	I or I/O	Mute input signal or can be programmed as General Purpose Input/Output 5
GPIO[4:2]	3	I/O	Can be programmed as General Purpose Input/Output 4, 3 and 2
ERROR/GPIO1	1	O or I/O	Error output signal or can be programmed as General Purpose Input/Output 1
$\overline{\text{DREQ}}$/GPIO0	1	O or I/O	Data Request output signal or can be programmed as General Purpose Input/Output 0
			Serial Host Interface (4)
SI	1	I	Host Serial interface data Input. Also, at $\overline{\text{RESET}}$ defines Z2CADR[5] of Z2C address.
SO/SDA	1	I/O/T	SPI host Serial interface data Output or Serial Data for Z2C
SCK/SCL	1	I	SPI host Serial interface Clock input or Slave Clock input for Z2C
$\overline{\text{SS}}$	1	I	SPI host serial interface Slave Select input. Also, at $\overline{\text{RESET}}$ defines Z2CADR[4] of Z2C address.
			ICE Interface (4)
TDI	1	I	ICE Test interface Data Input
TDO	1	O/T	ICE Test interface Data Output
TCK	1	I	ICE Test interface Clock input
TMS	1	I	ICE Test interface Mode Select
			System Interface (7)
$\overline{\text{INT}}$	1	I	External Interrupt request input
$\overline{\text{RESET}}$	1	I	Reset input to start operation in known state
XTI	1	I	External system clock Input or connection to external crystal, at frequency f_{XTI}
XTO	1	O	Output connection to external crystal
CLKOUT	1	O	Clock Output from the ZR38601 at frequency $f_{DSP}/2$
BYPASS	1	I	Bypass internal DSP core PLL to use external system clock input on XTI
FLTCAP	1	I	External Filter Capacitor connection for PLL. A value of 47nF is recommended.
			Power (26)
VDD	12	Power	+3.3 volt power supply
VDDA	1	Power	+3.3 volt power supply, Analog for PLL
GND	12	Power	Power supply Ground
GNDA	1	Power	Power supply Ground, Analog for PLL
			Total (100)

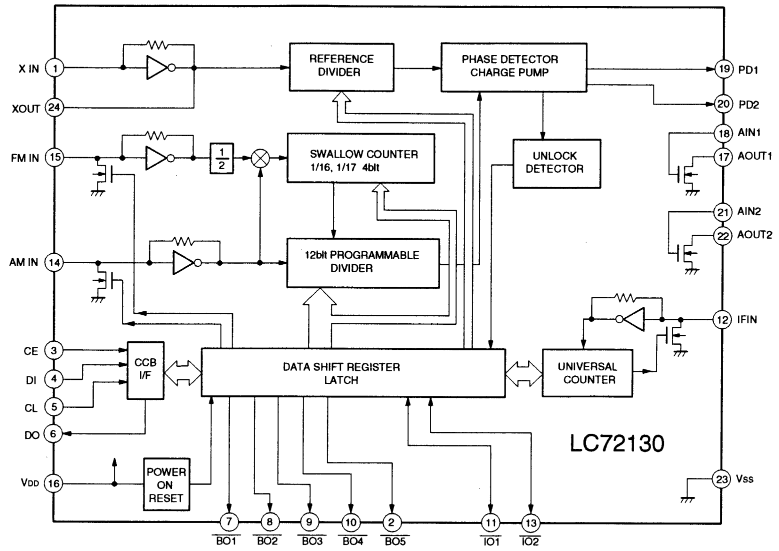
1. O = Output, I = Input, T = Tri-state in normal use. May be different at Reset time as shown in Table 23 on page 42.

Q691:TMP93CW44ADF

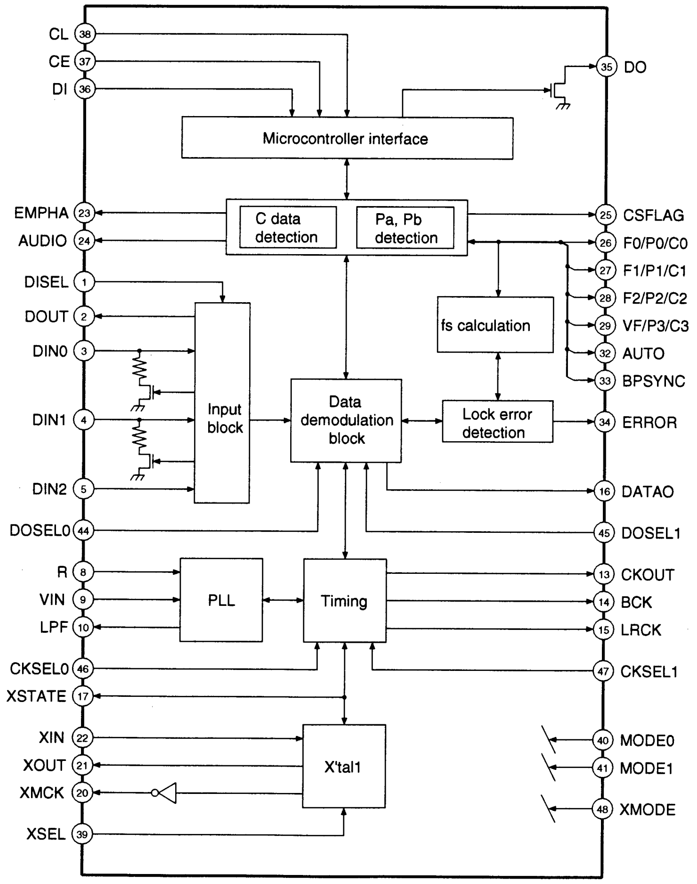
pin	port name	I/O	use	Name	Act.	Note
1	P55/AN5	I		MODE_SW0	-	Link Host or _Stand alone
2	P56/AN6	I		MODE_SW1	-	_HDCD available
3	P57/AN7	I		MODE_SW2	-	_RF available
4	NMI	I	-	-	-	to GND
5	P60/TXD0	I/O	O	DO0		Data out to DSP1&2
6	P61/RXD0	I/O	I	DI0		Data In from DSP1&2
7	P62/SCLK0	I/O	O	SCLK0		Clock Out to DSP1&2
8	P63/TXD1	I/O	O	DO1		Data out to DIR
9	P64/RXD1	I/O	I	DI1		Data In from DIR
10	P65/SCLK1	I/O	O	SCLK1		Clock Out to DIR
11	P70/WAIT	I/O	O	T0	L	to check LED
12	P71	I/O	O	T1	L	to check LED
13	Vss	I	Vss	GND	-	GND
14	P72	I/O	O	T2	L	to check LED
15	P73	I/O	O	T3	L	to check LED
16	P74	I/O	O	T4	L	to check LED
17	P75	I/O	O	X2GAIN	L	HDCD PE
18	P76	I/O	I	HDCD	H	detect HDCD
19	P77	I/O	O	K_TEST	L	to check LED
20	CLK	O	-	n.c.	-	pull µP
21	AM8/16	I	-	n.c.	-	pull µP
22	X1	I	X1	20MHz	-	

pin	port name	I/O	use	Name	Act.	Note
41	P10/AD8	I/O	O	_RSTRF	L	Reset RF demodulate
42	P11/AD9	I/O	O	D_A	-	Digital / _Analog select
43	P12/AD10	I/O	O	DEMP	H	Emphasis to S-Direct
44	P13/AD11	I/O	O	_UMUTE	L	Hard Mute for Tr
45	P14/AD12	I/O	O	FS96	H	96kHz fs
46	P15/AD13	I/O	O	BYPASS 1	H	Bypass DSP1
47	P16/AD14	I/O	O	_BYPASS 2	L	Bypass DSP2
48	P17/AD15	I/O	O	_CS_DSP1	L	_CS_DSP1(main DSP)
49	P20/A0	I/O	O	_CSB_DSP1	L	_CS DSP1(sub DSP)
50	P21/A1	I/O	O	_SS_DSP2	L	_SS DSP2(Zoran)
51	P22/A2	I/O	O	_CE_DIR	L	_CE for DIR
52	P23/A3	I/O	O	_RSTDSP2	L	Reset DSP2
53	P24/A4	I/O	O	_RSTDA1	L	Reset DAC for L/R
54	P25/A5	I/O	O	_RSTDA2	L	Reset DAC except L/R
55	P26/A6	I/O	O	_IC	L	Reset DSP1
56	P27/A7	I/O	O	_XMODE	L	_Reset DIR
57	Vcc	I	Vcc	+5VD	-	Vcc
58	P30/RD	O	O	_RSTAD	L	Reset & Cal for ADC
59	P31/WR	O	O	_IFACK	L	Ack to main CPU
60	P32/SCK	I/O	I	IFSCK	-	Clock from main CPU
61	P33/SO	I/O	O	IFDO	-	Data to main CPU
62	P34/SI	I/O	I	IFDI	-	Data from main CPU
63	P35/INT0	I/O	INT	OVFB	H	Over Level (sub DSP)
64	P40/INT1	I/O	INT	XSTATE	H	MCLK status(L:/unstable)
65	P41/TO3	I/O	I	CAL	H	ADC Calibration
66	P42/INT4	I/O	INT	_RFNODET	L	_No RF signal
67	P43/INT5	I/O	INT	ERF	H	DIR Error
68	P44/TO4	I/O	O	-	-	-
69	P45/INT6	I/O	INT	_IFREQ	L	Request from main CPU
70	P46/INT7	I/O	I	CSFLAG	H	Ch. Status(fall edge DIR)
71	P47/TO6	I/O	O	-	-	-
72	VrefH	I	VrefH	+5VD	-	ref High voltage for int. AD
73	VrefL	I	VrefL	GND	-	ref Low voltage for int. AD
74	Avss	I	Avss	GND	-	GND for Int. AD
75	Avcc	I	Avcc	+5VD	-	Vcc for Int. AD
76	P50/AN0	I	AN	KEY_INPUT0	-	Optional 8 key input 0
77	P51/AN1	I	AN	KEY_INPUT1	-	Optional 8 key input 1
78	P52/AN2	I	AN	KEY_INPUT2	-	Optional 8 key input 2
79	P53/AN3	I	AN	KEY_INPUT3	-	Optional 8 key input 3
80	P54/AN4	I	AN	KEY_INPUT4	-	Optional 8 key input 4

Q501:LC72130


X IN
1
XOUT
24
FM IN
15
AM IN
14
CE
3
DI
4
CL
5
DO
6
VDD
16
REFERENCE DIVIDER
PHASE DETECTOR CHARGE PUMP
1/2
SWALLOW COUNTER 1/16, 1/17 4bit
UNLOCK DETECTOR
12bit PROGRAMMABLE DIVIDER
CCB I/F
DATA SHIFT REGISTER LATCH
UNIVERSAL COUNTER
POWER ON RESET
19
PD1
20
PD2
18
AIN1
17
AOUT1
21
AIN2
22
AOUT2
12
IFIN
23
Vss
LC72130
7
8
9
10
2
11
13
BO1
BO2
BO3
BO4
BO5
IO1
IO2

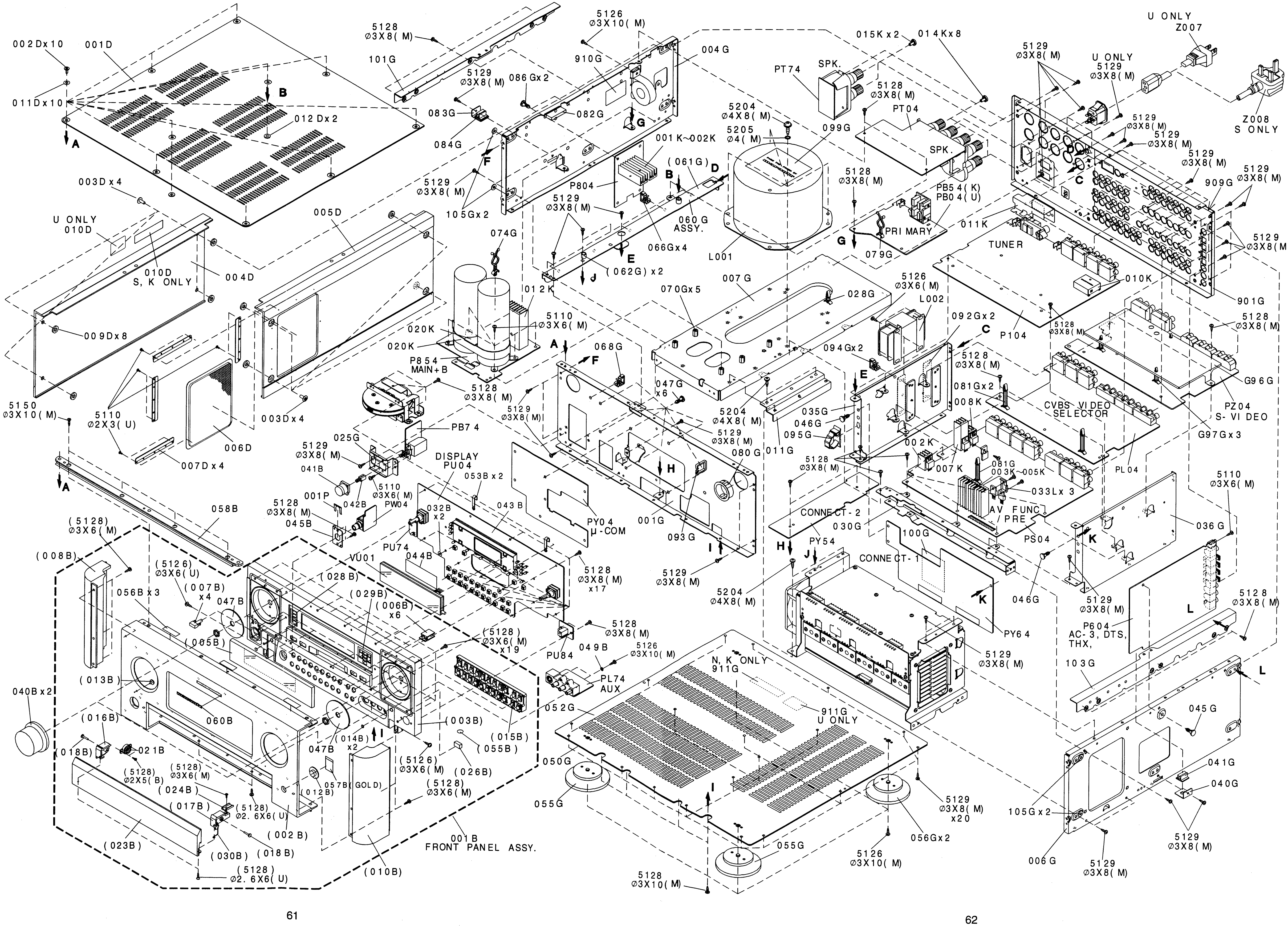
QR01:LC89055Q


CL 38
CE 37
DI 36
DO 35
Microcontroller interface
EMPHA 23
AUDIO 24
C data detection
Pa, Pb detection
25 CSFLAG
26 F0/P0/C0
27 F1/P1/C1
28 F2/P2/C2
29 VF/P3/C3
32 AUTO
33 BPSYNC
DISEL 1
DOUT 2
DINO 3
fs calculation
Input block
Data demodulation block
Lock error detection
DIN1 4
34 ERROR
DIN2 5
16 DATAO
DOSEL0 44
45 DOSEL1
R 8
VIN 9
LPF 10
PLL
Timing
13 CKOUT
14 BCK
15 LRCK
CKSEL0 46
47 CKSEL1
XSTATE 17
XIN 22
XOUT 21
XMCK 20
XSEL 39
X'tal1
40 MODE0
41 MODE1
48 XMODE

QY01:TMP93PW40DF

no	port name	I/O	USE	Sig. Name	act.	Description
1	VREFL	I	-	-	-	A/D VREFL.
2	AVSS	I	-	-	-	A/D VSS
3	AVCC	I	-	-	-	A/D VCC
4	NMI	I	NMI	-	-	Pull Up
5	P70/TI0	I/O	O	_POWER OFF	L	
6	P71/TO1	I/O	O	KILL IR	H	
7	P72/TO2	I/O	O	RC-5 OUT	H	
8	P73/TO3	I/O	O	SPEAKER OFF	H	SPK RELAY
9	P80/INT4/	I/O	I	RC-5 IN	H	Both Edge
10	P81/INT5/	I/O	I	SYNC0	H	Rising Edge
11	P82/TO4	I/O	I	_HEAD PHONE	L	
12	P83/TO5	I/O	I	-	-	Pull Up
13	P84/INT6/	I/O	I	_SURR. ACK	L	Both Edge
14	P85/INT7/	I/O	I	SYNC1	H	Rising Edge
15	P86/TO6	I/O	I	MULTI RC-5 IN	L	
16	P87/INT0	I/O	I	_POWER DOWN	L	
17	P90/TXD0	I/O	TXD	DO0	-	I/F to SURR. µP
18	P91/RXD0	I/O	RXD	DI0	-	I/F to SURR. µP
19	P92/SCLK0	I/O	CLK	CLK0	-	I/F to SURR. µP
20	P93/TXD1	I/O	O	DO1	-	I/F to ICs
21	P94/RXD1	I/O			-	
22	P95/SCLK1	I/O	O	CLK1	-	I/F to ICs
23	AM8/_16	I	-	-	-	Pull Up
24	CLK	O	-	-	-	Pull Up
25	VCC	I	-	-	-	Pull Up
26	VSS	I	-	-	-	to VSS
27	X1	I	-	-	-	20MHz
28	X2	O	-	-	-	20MHz
29	EA	I	-	-	-	Pull Up
30	RESET	I	-	-	-	
31	P96/XT1	I/O	I	-	-	to VSS
32	P97/XT2	I/O	I	-	-	to VSS
33	TEST1	I	-	-	-	to TEST2
34	TEST2	I	-	-	-	to TEST1
35	PA0	I/O	O	OSD ON0	H	
36	PA1	I/O	O	OSD ON1	H	
37	PA2	I/O	O	_CLR LED	L	NJU3718 CLR
38	PA3	I/O	O	MULTI RC-5 OUT	H	
39	PA4	I/O	O	_CE8 (Volume 8ch)	L	
40	PA5	I/O	O	SMUTE	H	
41	PA6	I/O	O	_RST SURR	L	
42	PA7/SCOUT	I/O	O	_REQ SURR	L	I/F to SURR. µP
43	ALE	O	-	-	-	Pull Up
44	VCC	I	-	-	-	to VCC
45	P00	I/O	O	TU_CE(TUNER)	H	
46	P01	I/O	O	CLK(TUNER)	-	
47	P02	I/O	O	DO(TUNER)	-	
48	P03	I/O	I	DI(TUNER)	-	
49	P04	I/O	I	SD(TUNER)	L	
50	P05	I/O	I	DI(RDS)	-	
51	P06	I/O	O	_KILL CON	L	
52	P07	I/O	O	-	-	
53	P10	I/O	O	-CLKFL	-	
54	P11	I/O	O	-DATAFL	-	
55	P12	I/O	O		-	
56	P13	I/O	O	-	-	
57	P14	I/O	O	-	-	
58	P15	I/O	O	-	-	
59	P16	I/O	O	-	-	
60	P17	I/O	O	-	-	
61	WDTOUT	O	-	-	-	N.C
62	VSS I		-	- -		to VSS
63	VCC	I	-	-	-	to VCC
64	P20	I/O	I	FUNC. ENC. A	-	
65	P21	I/O	I	FUNC. ENC. B	-	
66	P22	I/O	I	VOL. ENC. A	-	
67	P23	I/O	I	VOL. ENC. B	-	
68	P24	I/O	I	GYRO A	-	
69	P25	I/O	I	GYRO B	-	
70	P26	I/O	I	-	-	to VSS
71	P27	I/O	I	-	-	to VSS
72	P30	I/O	O	CE0(AUDIO)	H	
73	P31	I/O	O	_CE7(VIDEO)	L	
74	P32	I/O	O	CE3(Multi Vol.)	H	
75	P33	I/O	O	_CE6(MUTE)	L	
76	P34	I/O	O	_CE5(LED)	L	
77	P35	I/O	O	_CE4(FL)	L	
78	P36	I/O	O	_CE1(OSD C)	L	
79	P37	I/O	O	_CE2(OSD S)	L	
80	P40	I/O	O	(RESERVED)	-	
81	P41	I/O	O	(RESERVED)	-	
82	P42	I/O	O	(RESERVED)	-	
83	P60/	I/O	I	(RESERVED)	-	to VSS
84	P61/	I/O	I	(RESERVED)	-	to VSS
85	P62/	I/O	I	(RESERVED)	-	to VSS
86	P63/	I/O	I	SWITCH0	-	
87	P64/	I/O	I	SWITCH1	-	
88	P65/	I/O	I	SWITCH2	-	
89	P66/	I/O	I	SWITCH3	-	
90	P67/	I/O	I	SWITCH4	-	
91	VSS	I	-	-	-	to VSS
92	P50/AN0	I	AN	-	-	pull down
93	P51/AN1	I	AN	POWER DET.	-	see below
94	P52/AN2	I	AN	ABNORMAL	-	see below
95	P53/AN3	I	AN	KEY IN0	-	
96	P54/AN4	I	AN	KEY IN1	-	
97	P55/AN5	I	AN	KEY IN2	-	
98	P56/AN6	I	AN	KEY IN3	-	
99	P57/AN7	I	AN	KEY IN4	-	
100	VREFH	I	-	-	-	A/D VREFH

7. EXPLODED VIEW AND PARTS LIST

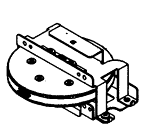

002Dx10
001D
011Dx10
B
012Dx2
A
003Dx4
U ONLY
010D
010D
S, K ONLY
004D
005D
009Dx8
5150
Ø3X10(M)
5110
Ø2X3(U)
007Dx4
006D
003Dx4
A
058B
5128
Ø3X8(M)
101G
5129
Ø3X8(M)
086Gx2
083G
084G
082G
F
5129
Ø3X8(M)
105Gx2
5126
Ø3X10(M)
910G
004G
G
001K~002K
P804
(061G)
B
D
5129
Ø3X8(M)
060G
ASSY.
066Gx4
E
J
(062G)x2
074G
012K
5110
Ø3X6(M)
020K
020K
P854
MAIN+B
5128
Ø3X8(M)
PB74
5129
Ø3X8(M)
025G
041B
5110
Ø3X6(M)
001P
042B
PW04
5128
Ø3X8(M)
045B
DISPLAY
PU04
053Bx2
032B
x2
043B
PU74
044B
VU01
5129
Ø3X8(M)
PY04
μ-COM
5128
Ø3X8(M)
x17
5128
Ø3X8(M)
PU84
049B
5126
Ø3X10(M)
PL74
AUX
A
F
068G
047G
x6
H
5204
Ø4X8(M)
5129
Ø3X8(M)
080G
001G
093G
I
5129
Ø3X8(M)
PT74
SPK.
015Kx2
014Kx8
5204
Ø4X8(M)
5205
Ø4(M)
099G
5128
Ø3X8(M)
PT04
SPK.
5128
Ø3X8(M)
PB54(K)
PB04(U)
G
PRIMARY
079G
L001
007G
070Gx5
028G
5126
Ø3X6(M)
L002
092Gx2
C
094Gx2
E
5128
Ø3X8(M)
081Gx2
008K
035G
046G
095G
011G
5128
Ø3X8(M)
002K
081G
007K
003K~005K
033Lx3
AV FUNC
/ PRE
CONNECT-2
030G
PY54
PS04
100G
CONNECT-1
H
J
5204
Ø4X8(M)
K
PY64
5129
Ø3X8(M)
046G
5129
Ø3X8(M)
U ONLY
Z007
Z008
S ONLY
U ONLY
5129
Ø3X8(M)
5129
Ø3X8(M)
5129
Ø3X8(M)
5129
Ø3X8(M)
5129
Ø3X8(M)
5129
Ø3X8(M)
C
909G
5129
Ø3X8(M)
011K
TUNER
010K
901G
P104
5128
Ø3X8(M)
5128
Ø3X8(M)
G96G
PZ04
S-VIDEO
CVBS VIDEO
SELECTOR
G97Gx3
PL04
5110
Ø3X6(M)
036G
K
5129
Ø3X8(M)
L
P604
AC-3, DTS,
THX,
5128
Ø3X8(M)
103G
L
045G
041G
040G
105Gx2
006G
5129
Ø3X8(M)
5129
Ø3X8(M)
(5128)
Ø3X6(M)
(008B)
(5126)
Ø3X6(U)
(007B)
x4
056Bx3
047B
(028B)
(029B)
(006B)
x6
(5128)
Ø3X6(M)
x19
(005B)
(013B)
060B
040Bx2
(016B)
(018B)
021B
(5128)
Ø2X5(B)
(5128)
Ø3X6(M)
(024B)
(017B)
(5128)
Ø2.6X6(U)
(023B)
(030B)
(018B)
(002B)
(5128)
Ø2.6X6(U)
047B
(014B)
x2
I
057B(GOLD)
(012B)
(5126)
Ø3X6(M)
(5128)
Ø3X6(M)
(026B)
(003B)
(055B)
(015B)
(010B)
001B
FRONT PANEL ASSY.
052G
N, K ONLY
911G
911G
U ONLY
050G
055G
I
055G
056Gx2
5129
Ø3X8(M)
x20
5126
Ø3X10(M)
5128
Ø3X10(M)

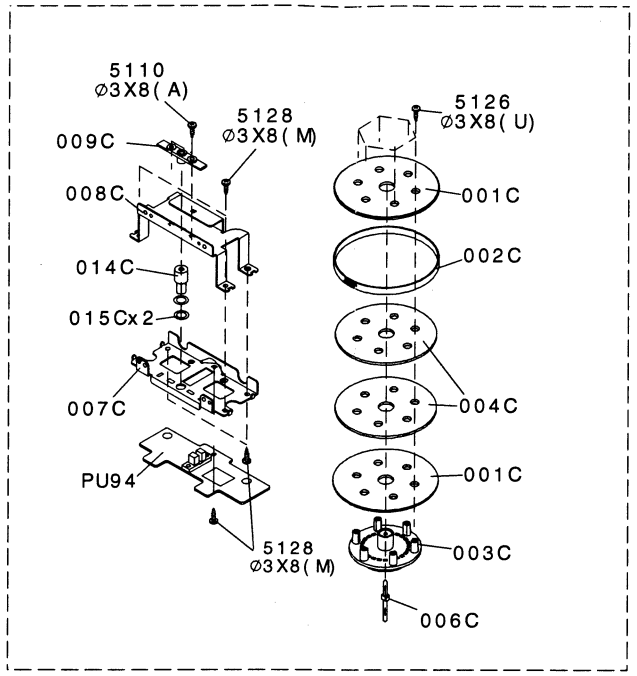
POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
001B	14A /K, /S /UG		FRONT AL PANEL KIT GL	326J248510
001B	14A /NG		FRONT AL PANEL KIT GL N	326J248530
001B	14A /UB		FRONT AL PANEL KIT BL	326J248500
002B	14A /K, /S /UG		FRONT AL PANEL GL	326J248110
002B	14A /NG	9965 000 06309	FRONT AL PANEL GL N	326J248120
002B	14A /UB		FRONT AL PANEL BL	326J248010
001B	17 F		FRONT AL PANEL KIT HAIR GL	336J248510
002B	17 F		FRONT AL PANEL HAIR GL	336J248110
001B	18A GOLD		FRONT AL PANEL KIT GL	331J248510
001B	18A BLACK		FRONT AL PANEL KIT BL	331J248500
002B	18A GOLD		FRONT AL PANEL GL	331J248110
002B	18A BLACK		FRONT AL PANEL BL	331J248010
003B	GOLD	9965 000 06310	FRONT MOULD PANEL GL	300J248160
003B	BLACK		FRONT MOULD PANEL BL	300J248060
005B	GOLD	9965 000 06311	FL WINDOW GL	326J158110
005B	BLACK		FL WINDOW BL	326J158010
006B		9965 000 01794	LENS FUNCTION LED LENS	300J355010
007B	GOLD	9965 000 01795	BUTTON GYRO SIDE FUNCTION GL	300J270120
007B	BLACK		BUTTON GYRO SIDE FUNCTION BL	300J270020
008B	14A,17 GOLD	9965 000 01796	ESCUTCHEON CORNER L SIDE GL	322J063110
008B	14A BLACK		ESCUTCHEON CORNER L SIDE BL	322J063010
010B	14A,17 GOLD	9965 000 01797	ESCUTCHEON CORNER R SIDE GL	322J063120
010B	14A BLACK		ESCUTCHEON CORNER R SIDE BL	322J063020
008B	18A GOLD		ESCUTCHEON CORNER L SIDE GL	300J063110
008B	18A BLACK		ESCUTCHEON CORNER L SIDE BL	300J063010
010B	18A GOLD		ESCUTCHEON CORNER R SIDE GL	300J063120
010B	18A BLACK		ESCUTCHEON CORNER R SIDE BL	300J063020
012B	GOLD	4822 381 12016	IR LENS GL	256J355030
012B	BLACK	4822 381 12015	IR LENS BL	256J355040
013B		4822 381 11677	POWER LED LENS	230K355020
014B		4822 462 10955	BUFFER DOOR BUFFER	446T056010
015B	GOLD	9965 000 01798	BUTTON FUNCTION BLOCK GL	300J270110
015B	BLACK		BUTTON FUNCTION BLOCK BL	300J270010
016B	GOLD	9965 000 01799	ARM DOOR HINGE L SIDE GL	300J002110
016B	BLACK		ARM DOOR HINGE L SIDE BL	300J002010
017B	GOLD	9965 000 01800	ARM DOOR HINGE R SIDE GL	300J002120
017B	BLACK		ARM DOOR HINGE R SIDE BL	300J002020
018B		9965 000 01801	SHAFT DOOR SHAFT	300J112010
021B		4822 529 10215	DAMPER DOOR DUMMPER	391H130030

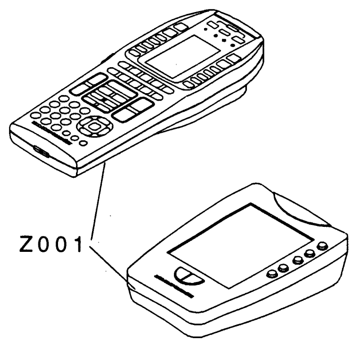
POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
023B	17 /F		DOOR PANEL HAIR GL	336J162110
023B	GOLD	9965 000 06312	DOOR PANEL GL	326J162110
023B	BLACK		DOOR PANEL GL	326J162010
026B		4822 526 20213	DOOR MAGNET	271K305500
028B			WINDOW MASK SHEET L	300J303010
029B			WINDOW MASK SHEET R	300J303020
030B		9965 000 01803	SPRING DOOR ESD	300J115010
040B	14A,17 GOLD	9965 000 01804	KNOB MASTER GL	300J154210
040B	18A GOLD		KNOB MASTER GL	300J154110
040B	BLACK		KNOB MASTER BL	300J154010
041B	GOLD	4822 410 11276	BUTTON POWER GL	176J270150
041B	BLACK	4822 410 11275	BUTTON POWER BL	176J270050
042B		4822 404 21012	JOINT POWER BUTTON	025J125010
043B		4822 256 92097	FL HOLDER	183J271020
044B		4822 459 11158	FL ADHESIVE TAPE	056J122010
049B		4822 532 21196	FLAT WASHER L. VIDEO TURMINAL	54110149A0
057B	GOLD		MASK IR	300J303030
058B	14A,17 GOLD		ESCUTCHEON TOPCOVER SPACER GL	322J063130
058B	14A BLACK		ESCUTCHEON TOPCOVER SPACER BL	322J063030
060B	GOLD	9965 000 01554	BADGE MARANTZ GL	313J251110
060B	BLACK	9965 000 01553	BADGE MARANTZ BL	313J251010
001C	GOLD	4822 410 11676	ESCUTCHEON GYRO. UP & DOWN:GL	290J063110
001C	BLACK	4822 410 11675	ESCUTCHEON GYRO. UP & DOWN:BL	290J063010
002C	GOLD	9965 000 01396	RUBBER RING GYRO GL	290J066110
002C	BLACK		RUBBER RING GYRO BL	290J066010
003C		9965 000 01397	FLYWHEEL GYRO BASE	290J273110
006C		9965 000 01398	SHAFT GYRO MAIN	290J112010
009C			RETAINER GYRO UPPER	290J104050
014C		9965 000 01805	SHAFT GYRO SUSTAINER UNDER	300J112020
015C			WASHER FOR UNDER SIDE	59071102G0
001D	14A,17 GOLD	9965 000 01806	LID TOPCOVER GL	322J257110
001D	14A BLACK		LID TOPCOVER BL	322J257010
002D	14A,17 GOLD	9965 000 06313	SCREW TOPCOVER GL	323S010040
002D	14A BLACK		SCREW TOPCOVER BL	323S010050
003D	14A,17 GOLD	4822 502 14613	SCREW SIDE GL	258S010020
003D	14A BLACK	4822 502 14612	SCREW SODE BL	258S010010
004D	14A,17 GOLD	9965 000 01807	SIDEPANEL L GL	322J249110
004D	14A BLACK		SIDEPANEL L BL	322J249010
001D	18A GOLD		LID TOPCOVER GL	300J257050
001D	18A BLACK		LID TOPCOVER BL	300J257010
002D	18A GOLD		B.T.SCREW(W/W)	51260408M0
002D	18A BLACK		B.T.SCREW(W/W)	51260408U0
003D	18A GOLD		B.H.M. SCREW	51100408M0
003D	18A BLACK		B.H.M. SCREW	51100408U0
004D	18A		B.T.SCREW(W/W)	51260308M0

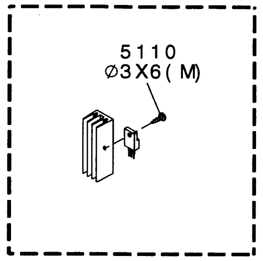
POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
005D	14A,17 GOLD	9965 000 01808	SIDEPANEL R GL	322J249120
005D	14A BLACK		SIDEPANEL R BL	322J249020
006D	14A,17 GOLD	9965 000 01809	PERFORATED SIDE NET GL	322J003110
006D	14A BLACK		PERFORATED SIDE NET BL9	322J003010
055G	14A	4822 462 42134	LEGS FRONT GOLD AL CAP	291K057010
056G	14A	4822 462 42134	LEGS REAR GOLD AL CAP	291K057010
055G	17		LEGS FRONT GOLD AL CAP	405K057010
056G	17		LEGS REAR GOLD AL CAP	405K057010
055G	18A		LEGS FRONT GOLD PAINT	264J057040
056G	18A		LEGS REAR GOLD PAINT	264J057140
089G			T.L. WASHER OR	54050400M0
G96G	14A, 17		SHIELD VIDEO PCB UPPER	300J109010
G97G	14A, 17		SUPPORT VIDEO PCB SHIELD	415T101010
JL21 JL22 ~ JL25		4822 264 10111	SHOTE PLUG SHORT PIN WITH COVER	YQ01000080
⚠ J001		9965 000 01313	JACK 2P AC INLET PWI1910-H	YJ04002440
⚠ L001	/K		MAINS TRANSF. 220V 50Hz	TS42002080
⚠ L001	/N,/S	9965 000 07545	MAINS TRANSF. 230V 50Hz	TS42002170
			<REMARK for /N1G and /S1G> **In case of the production service code "MZ00" products, when replace the mains transformer L001 to the new one. It is necessary to remove capacitors C854 (0.01μF) and C855 (0.22μF) which soldered between pin #1 and pin #3 of the connector J851.**	
⚠ L001	/U		MAINS TRANSF. 120V 60Hz	TS42002100
⚠ L002	/K		MAINS TRANSF. 220V 50/60Hz	TS17205090
⚠ L002	/N,/S	9965 000 01779	MAINS TRANSF. 230V 50/60Hz	TS17205100
⚠ L002	/U		MAINS TRANSF. 120V 60Hz	TS16404120
L003			FERRITE CORE TFCK-23B -11-14	FC50230010
L005		4822 526 10691	FERRITE CORE TFCK-16-8-13 FOR WY04	FC50160030
WY05		9965 000 06308	JUMPER LEAD SMCD-33X100 FROM JY01 TO JY51	YU33100500
WY51		4822 321 62312	JUMPER LEAD SMCD-33X200 FROM JY51 TO JY61	YU33200510

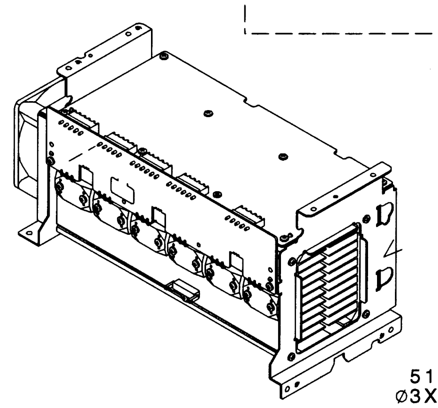
POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PACKING	
001T	14A /K, /S		USER GUIDE FOR K	326J851350
001T	14A /N	9965 000 06314	USER GUIDE FOR N	326J851310
001T	14A /U		USER GUIDE FOR U	326J851250
001T	17 /F		USER GUIDE FOR F	336J851110
001T	18A /K, /S		USER GUIDE FOR K	331J851350
001T	18A /U		USER GUIDE FOR U	331J851250
Z001	14A		REMOTE COMMANDER RC5000i	ZK326J0010
Z001	17 18A		REMOTE COMMANDER RC18SR	ZK300J0010
⚠ Z007	/K		MAINS CORD CCEE 2.5A 250V	ZC01803090
⚠ Z007	/F		MAINS CORD CCEE 12A 125V	ZC01802080
⚠ Z007	/U		MAINS CORD 125V13A UL/CSA	ZC01802100
⚠ Z008	/N	4822 321 11439	MAINS CORD 2P 10A 250V CLASSONG	ZC01803080
⚠ Z008	/S		MAINS CORD 10A250V/UK VOLEX	ZC01804100
			NOT STANDARD SPARE PARTS	
001S	14A		PACKING CASE	326J801010
001S	17		PACKING CASE	336J801010
001S	18A		PACKING CASE	326J801010
002S			CUTSION L SIDE	300J809010
003S			CUTSION R SIDE	300J809020
Z003	/K, /N /S		FM ANTENNA 931222R	ZA02800020
Z003	/F, /U	4822 303 30314	FM EXT ANT	ZA02000070
Z004		4822 157 63083	LOOP ANT. LA-700HB	LA00055010
Z005	/F, /U	4822 264 30265	ANT ADAPTOR	YP90000310
Z006	/K	4822 265 10092	JACK AC ADAPTER SMK S-I6116	YJ04001240




5110
ø3X8(A)
5128
ø3X8(M)
5126
ø3X8(U)
009C
008C
001C
002C
014C
015Cx2
007C
004C
PU94
001C
5128
ø3X8(M)
003C
006C

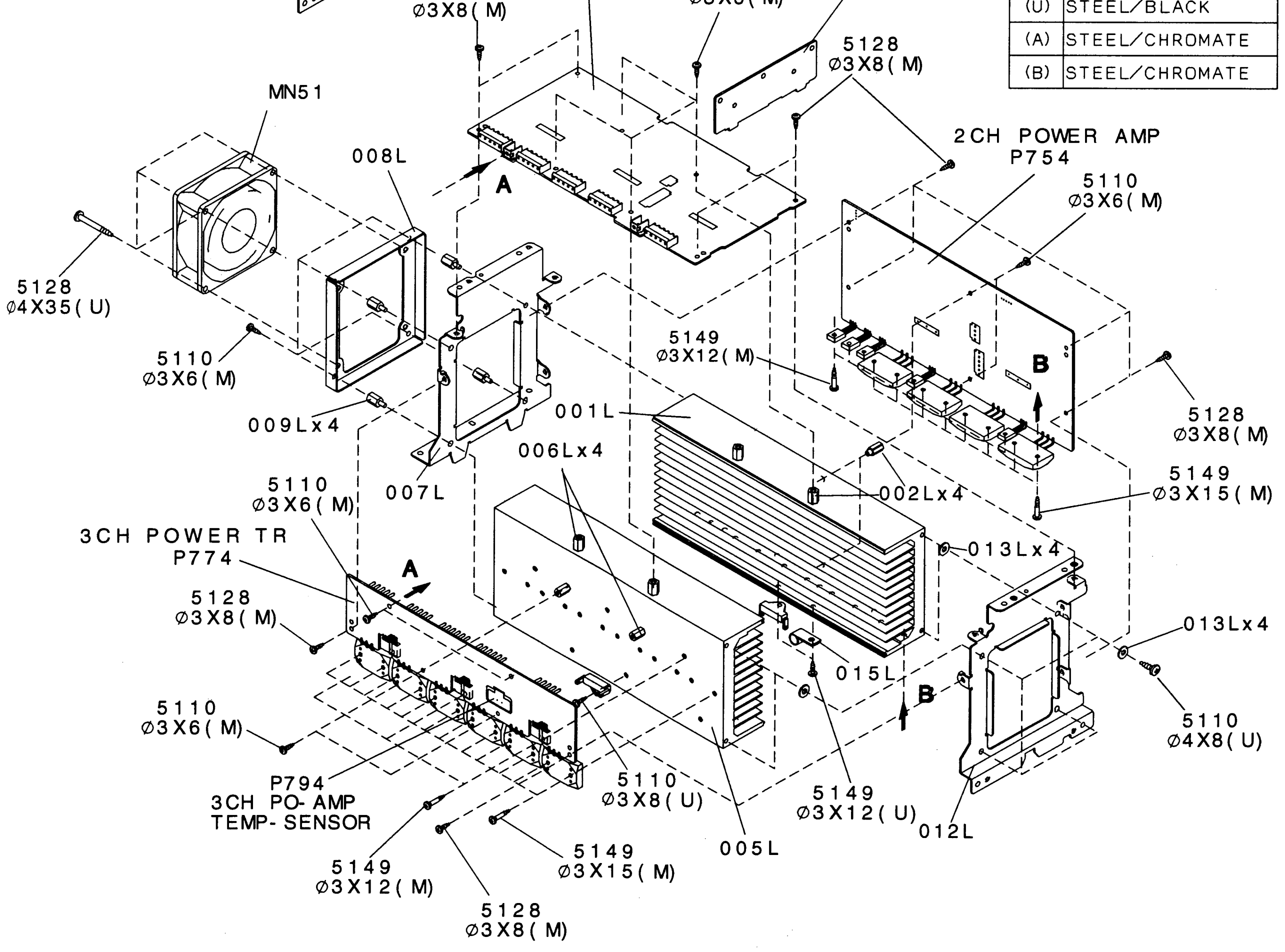




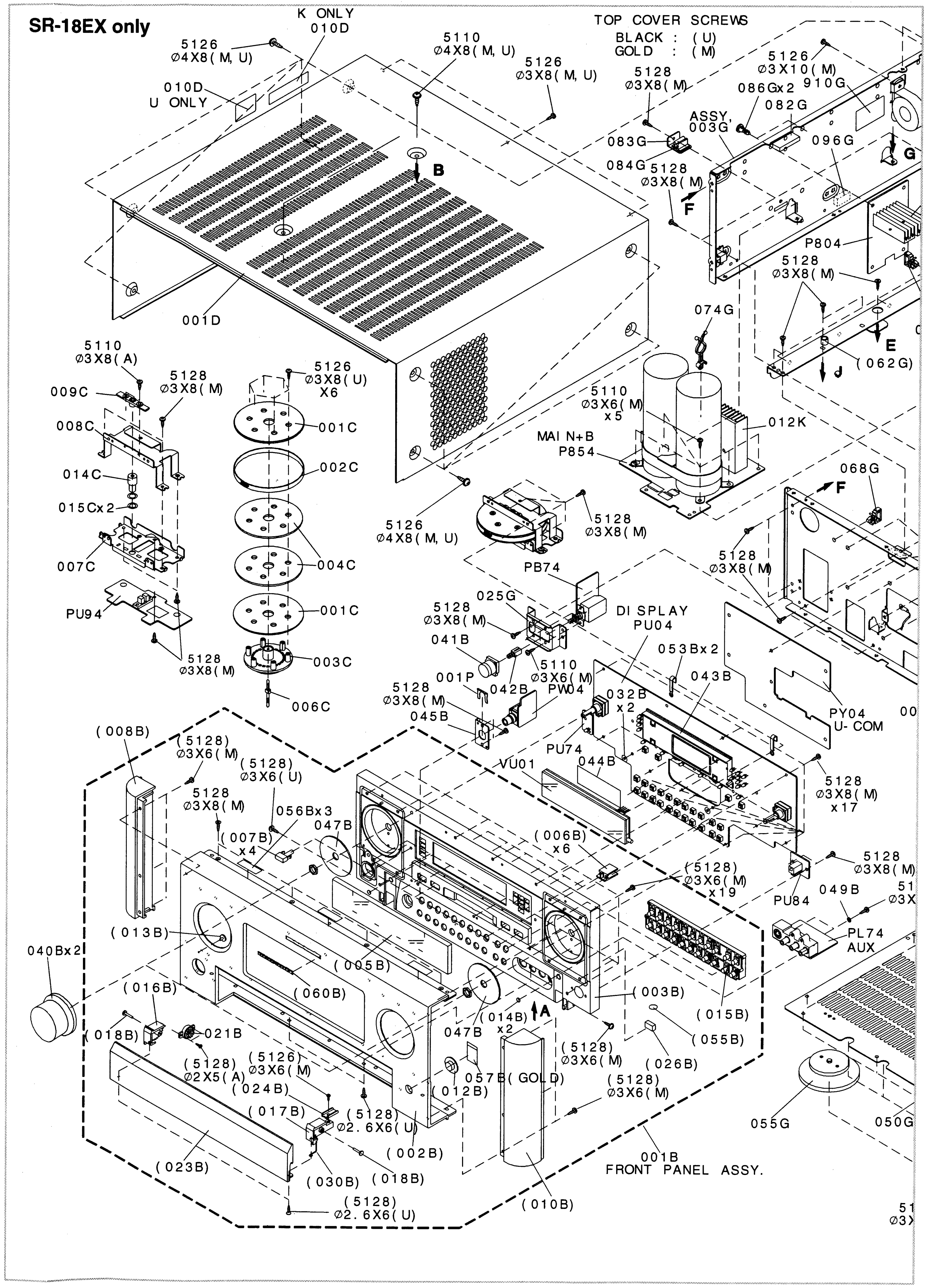


SYMBOL	STYLE	PARTS NAME
5110	⊕	+B. H. M. SCREW
5126	⊕	+B. H. TAP TITE SCREW W/WASHER
5128	⊕	+B. H. TAP TITE SCREW(B TYPE)
5149	⊕	+B. H. M. SCREW(W/WASHER/SP WASHER)
5204	⊕	+H. H. TAPT. BOLTS WITH FLANGE(S TITE)
5411	◎	FLAT WASHERS

MARK	MATERIAL/FINISH
(M)	STEEL/COPPER
(U)	STEEL/BLACK
(A)	STEEL/CHROMATE
(B)	STEEL/CHROMATE


3CH POWER AMP
P704
5128
ø3X8(M)
5110
ø3X6(M)
P794
5128
ø3X8(M)
2CH POWER AMP
P754
5110
ø3X6(M)
MN51
008L
A
5128
ø4X35(U)
5110
ø3X6(M)
B
5149
ø3X12(M)
5128
ø3X8(M)
009Lx4
001L
5149
ø3X15(M)
5110
ø3X6(M)
007L
006Lx4
002Lx4
3CH POWER TR
P774
A
013Lx4
5128
ø3X8(M)
013Lx4
015L
5110
ø4X8(U)
5110
ø3X6(M)
B
P794
3CH PO-AMP
TEMP-SENSOR
5110
ø3X8(U)
5149
ø3X12(U)
012L
5149
ø3X15(M)
005L
5149
ø3X12(M)
5128
ø3X8(M)

SR-18EX only


K ONLY
010D
5126
ø4X8(M, U)
010D
U ONLY
5110
ø4X8(M, U)
5126
ø3X8(M, U)
TOP COVER SCREWS
BLACK : (U)
GOLD : (M)
5128
ø3X8(M)
5126
ø3X10(M)
086Gx2
910G
ASSY,
003G
082G
083G
084G
5128
ø3X8(M)
096G
G
B
F
P804
5128
ø3X8(M)
001D
074G
E
J
(062G)
5110
ø3X8(A)
5128
ø3X8(M)
5126
ø3X8(U)
X6
009C
008C
001C
002C
014C
015Cx2
004C
007C
001C
PU94
003C
5128
ø3X8(M)
006C
5110
ø3X6(M)
x5
012K
MAIN+B
P854
5126
ø4X8(M, U)
5128
ø3X8(M)
068G
F
5128
ø3X8(M)
PB74
025G
5128
ø3X8(M)
DISPLAY
PU04
041B
5110
ø3X6(M)
053Bx2
001P
042B
PW04
043B
5128
ø3X8(M)
045B
032B
x2
PY04
U-COM
(008B)
(5128)
ø3X6(M)
(5128)
ø3X6(U)
VU01
PU74
044B
5128
ø3X8(M)
x17
5128
ø3X8(M)
056Bx3
047B
(007B)
x4
(006B)
x6
(5128)
ø3X6(M)
x19
5128
ø3X8(M)
PU84
049B
PL74
AUX
(013B)
040Bx2
(005B)
(060B)
(016B)
(003B)
(015B)
(014B)
x2
A
047B
(018B)
021B
(055B)
(5128)
ø3X6(M)
(5128)
ø2X5(A)
(5126)
ø3X6(M)
(026B)
(024B)
057B(GOLD)
(5128)
ø3X6(M)
(012B)
055G
050G
(017B)
(5128)
ø2.6X6(U)
(002B)
(023B)
(030B)
(018B)
001B
FRONT PANEL ASSY.
(5128)
ø2.6X6(U)
(010B)

8. SERVICE PROGRAM

REMARK

If these service programs are set, All user preset memories will be cleared.

1. FACTORY mode (Tracking point memory)

This **FACTORY mode** can be use for measurement of the tuner circuit.

When the product is POWER ON, press both [**MEMO**] and [**DISPLAY OFF**] buttons simultaneously over 3 seconds.

FLD shows "**FACTORY**" for 3 seconds. Press [**PRESET**] button, FLD shows "**PRESET SEL**".

The tuning frequencies are memorized as follows.

Band	VERSION	P1	P2	P3	P4
FM AUTO [MHz]	U, K, N, S	90.0	98.0	106.0	87.5
	F	78.0	83.0	88.0	76.0

Band	SCAN STEP	P5	P6	P7	P8	P9	P10	P11	P12
AM [kHz]	10 kHz(U)	600	1000	1400	520				
	9kHz(F, K, S)	603	999	1404	531				
	MW/LW(N)	603	999	1404	171	207	270	152	531

2. Version of microprocessor (CPU) and FLD segment check mode

This mode is available to confirm the version of each CPU and to check all luminous segments by the following steps.

1. When the product is FACTORY mode (Refer to the above mentioned "**1. FACTORY mode**"), press [**DISPLAY OFF**] button. FLD shows "**MARANTZ SR-14EX**".
2. Press [**DISPLAY OFF**] button. FLD shows the version of program code for QU01(main CPU).
3. Press [**DISPLAY OFF**] button. FLD shows the version of program code for Q961(SURROUND CPU).
4. Press [**DISPLAY OFF**] button. All segments turn off and LED's (TV, LD, DVD, VCR1, DSS/VCR2, AUX, STANDBY) light up.
5. Press [**DISPLAY OFF**] button. G1 and G2 segments light up step by step.
6. Press [**DISPLAY OFF**] button. Segments of checker pattern light up step by step.
7. Press [**DISPLAY OFF**] button. All segment of FLD and LED's turn off.
8. Press [**DISPLAY OFF**] button. It will return to 1. (FLD shows "**MARANTZ SR-14EX**".)

3. Input and output test mode

This mode is available for the functions as shown in Fig 1 by the following steps.

1. When the product is FACTORY mode (Refer to above mentioned "**1. FACTORY mode**"), press both [**MEMO**] and [**TREBLE▼**] buttons simultaneously.
2. FLD shows "**AUTO CD**". By pressing both [**MEMO**] and [**TREBLE ▼**] buttons simultaneously each time, the modeis changed in the following order.

Fig 1 Input and output test mode

ORDER	INDICATION for FLD	MODE FUNCTION
1	AUTO CD	Input selection mode (without using system setup menu)
2	ALL CH CD	5 or 6 channels output mode (This mode is available for 2 channels input)

3.1. Input selection mode (without setting to system setup menu)

This mode is available to select the input without setting to system setup menu by the following steps.

1. When FLD shows "AUTO CD"(Refer to "**4. Input and output test mode**"), the input can be shifted by pressing [**MODE**] button for the remote commander only each time as shown in Fig 2. ([**MODE**] button is in page4 of **AMP** function for RC-18SR*)

Fig 2. Input selection order by pressing [**MODE**] button each time

ORDER	INDICATION for FLD	INPUT STATUS
1	AUTO D1	DIG. 1 IN
2	AUTO D2	DIG. 2 IN
3	AUTO D3	DIG. 3 IN
4	AUTO D4	DIG. 4 IN
5	AUTO D5	DIG. 5 IN
6	AUTO D6	DIG. 6 IN
7	AUTO CD	CD IN (Analog)

Note: Surround mode is fixed "**AUTO**" mode automatically.

3.2. 5.1 channels output mode

This mode is available to output the same signal from 5 channels, even though 2 channels audio signal comes in.
As the result, all channels output can be confirmed by using analog stereo signal or PCM audio signal.
AC-3 or DTS source is not necessary to output from any channel in this mode.

1. When FLD shows "ALL CH CD" (Refer to "**4. Input and output test mode**"), the input can be shifted by pressing [**MODE**] button for the remote commander only each time as shown in Fig 3.
   ([**MODE**] button is in page4 of **AMP** function for RC-18SR*)
2. Supply to 2 channels PCM signal for digital input or 2 channels analog signal for analog input. But, Left channel and Right channel of input signal should be equal.
3. Then each output from the product is the same as the input signal. (Subwoofer channel is respond to lower than 80Hz signal)

Fig 3. Input selection order by pressing [**MODE**] button each time

ORDER	INDICATION for FLD	INPUT STATUS
1	ALL CH D1	DIG. 1 IN
2	ALL CH D2	DIG. 2 IN
3	ALL CH D3	DIG. 3 IN
4	ALL CH D4	DIG. 4 IN
5	ALL CH D5	DIG. 5 IN
6	ALL CH D6	DIG. 6 IN
7	ALL CH CD	CD IN (Analog)

4. Transistor MUTE mode

In mute situation on the product, output signal is muted by Volume control IC and muting transistor.
But, this mode is available to work the muting transistor only by the following steps.

1. When the product is FACTORY mode (Refer to "**1. FACTORY mode**"), press [**MUTE**] button for remote commander only.
2. FLD shows "**TrMUTE ON**", then muting transistor circuit is active only.

5. How to reset the product

When the product is POWER ON, press both [**CL**] and [**DISPLAY OFF**] buttons simultaneously.
FLD shows "**DEFAULT**" for 3 seconds, then all memories are cleared.

Note

* : The remote controller RC2000mkII is available instead of RC-18SR for [**MODE**] button.

9. ELECTRICAL ADJUSTMENTS

1. DC offset adjustment

Master Volume : Minimum, Speaker out : non Load

Step	Power	Channel	Adjustment Point	Test Point	Adjustment Vaule
1	on	Front L	R715	Speaker Output Terminal	± 20mV
		Center	RT15		
		Front R	RP16		
		Surr. L	RP15		
		Surr. R	R716		

Note : If the measured value is not exceed ±20mV, no need to adjust the DC offset.

2. Iding current adjustment

Master Volume : Minimum, Speaker out : non Load

Step	Power	Channel	Adjustment Point	Test Point	Adjustment Vaule
1	Power on	Front L	R743	J713 or R773	within 1 minute 0.4mV
		Center	RT43	JT13 or RT73	
		Front R	RP44	JP04 or RP74	
		Surr. L	RP43	JP03 or RP73	
2	after 4 minutes	Surr. R	R744	J714 or R774	see table for adjustment vaule
				J***:4P Connecter [between 1p-4p) R***:Emitter Resister [0.1Ω x 2 (0.18Ω x 2)]	

Time since power on	Idling current adjust.	Time since power on	Idling current adjust.
4–4 minutes 30 seconds	5.6mV	11-12 minutes	8.0mV
4m30s–5 minutes	6.4mV	12-14 minutes	7.6mV
5–5 minutes 30 seconds	7.2mV	14-16 minutes	7.2mV
5m30s–6 minutes	7.7mV	16-18 minutes	6.5mV
6–7 minutes	8.2mV	18-22 minutes	5.6mV
7-8 minutes	8.6mV	22-26 minutes	4.9mV
8-9 minutes	8.8mV	26-30 minutes	4.4mV
9-10 minutes	8.6mV	more than 30 minutes	4.0mV
10-11 minutes	8.4mV		The taget is 4.0mV

3. Thermostat circuit confirmation

1) When the product is POWER ON, remove the wire W701 from the connector J715 (P704).
2) FLD shows "**ERROR PWR1**".
3) Confirm the product is POWER OFF after 3 seconds.
4) Connect the wire W701 to the connector J715 (on P704).
5) Confirm the product is standby status.

4. Cooling fan confirmation

4.1 Fan failure sensor confirmation

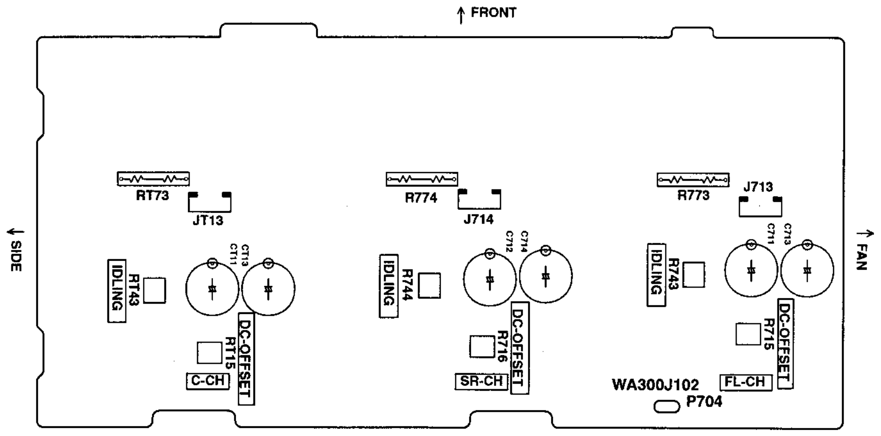
1) Set to be SPK output 1W from the front channel.
2) Connect the 1pin (LOCK) of the connecter JN10 (on P754) to chassis (GND level) by a wire.
3) After 6 seconds the SPK relay works, and the SPK output isn't output.

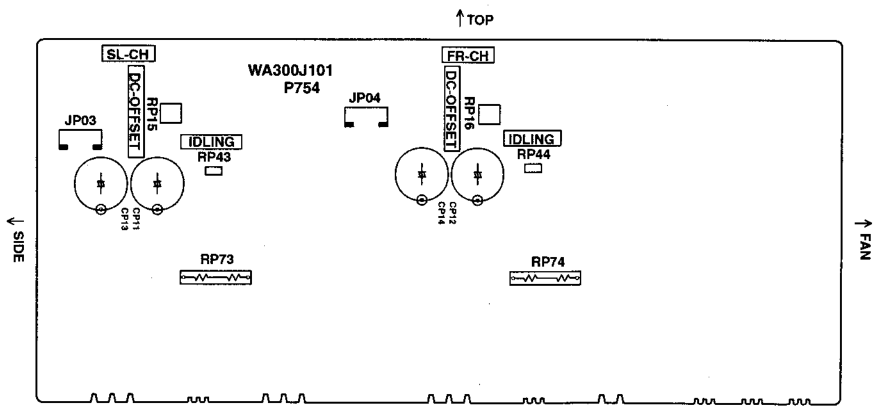
4.2 Temperature sensor confirmation

1) Connect a resistor (470ohms 1W) between JN10 3pin (T-2CH) and DC +12Voltages.
2) Confirm the cooling fan starts working. (Status : JN09 between 1pin and 2pin = **+7.5Voltage**, Fan speed = **Low**)
3) Remove the resistor.
4) Confirm the cooling fan stops.
5) Connect the resistor between JN10 4pin (T-3CH) and DC +12Voltage.
6) Confirm the cooling fan starts working again.
7) Remove the resistor.
8) Confirm the cooling fan stops.
9) Connect the resistor between JN10 3pin (T-2CH) and DC +12Voltage. And then connect another resistor between JN10 4pin (T-3CH) and DC +12Voltage.
10) Confirm the cooling fan starts working.
11) And then connect the resistor between JN10 2pin (SPEED) and DC +12Voltage.
12) Confirm the cooling fan changes to work with high speed. (Status : JN09 between 1pin and 2pin = **+11.5Voltage**, Fan speed = **High**)

4.3 Fan catching a foreign body sensor confirmation

1) Connect the resistor (470ohms 1W) between JN10 3pin (T-3CH) and DC +12Voltage.
2) Confirm the cooling fan starts working. (Status : JN09 between 1pin and 2pin=**+7.5Voltage**, Fan speed = **Low**)
3) Set to be SPK output 1W from the front channel.
4) Hold the cooling fan by hand and stop it.
   Notes: Take care of wound in the hand!
5) After 6 seconds the SPK relay works and the SPK output isn't output.


↑ FRONT
← SIDE
→ FAN
RT73
JT13
R774
J714
R773
J713
CT13
CT11
CT14
CT12
IDLING
RT43
R744
R743
DC-OFFSET
RT15
R716
R715
C-CH
SR-CH
FL-CH
WA300J102
P704


↑ TOP
← SIDE
→ FAN
SL-CH
FR-CH
WA300J101
P754
JP03
JP04
DC-OFFSET
RP15
RP16
IDLING
RP43
RP44
CP11
CP13
CP12
CP14
RP73
RP74

10. ALIGNMENT PROCEDURES

1. AM IF Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	999 kHz (K, N, S, F) 1000 kHz (U)	Level 300 µV/m (50dB/m) Mod. 400 Hz 30%	Tuning point	LA06	Output level (L or R) **Maximum** at TAPE-OUT

REMARK: For receiving antenna, the adapted one is available.
This adjustment is not necessary normally, because the coil LA06 is preset by the original supplier.
It is necessary when the incorrect usable sense and frequency response.

2. AM (MW) Tracking Adjustment

Step	**Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	603 kHz (K, N, S, F) 600 kHz (U)	Level 300 - 400 µV/m Mod. 400 Hz 30%	603 kHz (K, N, S, F) 600 kHz (U)	LA01	Output level (L or R) **Maximum** at TAPE-OUT
2		1404 kHz (K, N, S, F) 1400 kHz (U)	Level 300 - 400 µV/m Mod. 400 Hz 30%	1404 kHz (K, N, S, F) 1400 kHz (U)	CA01	Output level (L or R) **Maximum** at TAPE-OUT
3	Repeat step 1 and 2 until sensitivity be maximized.					

3. AM (LW) Tracking Adjustment [N version]

Step	**Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	171 kHz	Level 300 - 400 µV/m Mod. 400 Hz 30%	171 kHz	LA03	Output level (L or R) **Maximum** at TAPE-OUT
2		270 kHz	Level 300 - 400 µV/m Mod. 400 Hz 30%	270 kHz	CA08	Output level (L or R) **Maximum** at TAPE-OUT
3	Repeat step 1 and 2 until sensitivity be maximized.					

4. AM auto stop Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	999 kHz (K, N, S, F) 1000 kHz (U)	500 µV/m (54 dB/m)	999 kHz (K, N, S, F) 1000 kHz (U)	RA11	**"TUNED"** indicate on FLD
2			1000 µV/m (60 dB/m)	AUTO SCAN	Only Confirm	**"TUNED"** indicate on FLD

5. FM MONO. Distortion Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 Ω)	98 MHz (K, N, S, U) 83 MHz (F)	500 µV (54 dB) MONO 1 kHz / Dev.40kHz 53.3% (K, N, S) MONO 1 kHz / Dev. 75 kHz 100% (U, F)	98 MHz (P2)	L201	Distortion level **Minimum** at TAPE-OUT

6. FM Muting Level Adjustment

Turn the variable resistor **R212** to no indication ("TUNED") point. And return that valuable resistor in opposite to the **"TUNED"** indicate point.

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 Ω)	98 MHz (K, N, S, U) 83 MHz (F)	10 µV (20 dB) MONO 1 kHz / Dev.40 kHz 53.3% (K, N, S) MONO 1 kHz / Dev. 75 kHz 100% (U,F)	98 MHz (K, N, S, U) 83 MHz (F)	R212	**"TUNED"** indicate on FLD
2			Over mentioned level **+3 dB**	AUTO SCAN	Only Confirm	**"TUNED"** indicate on FLD

7. FM STEREO Distortion Adjustment

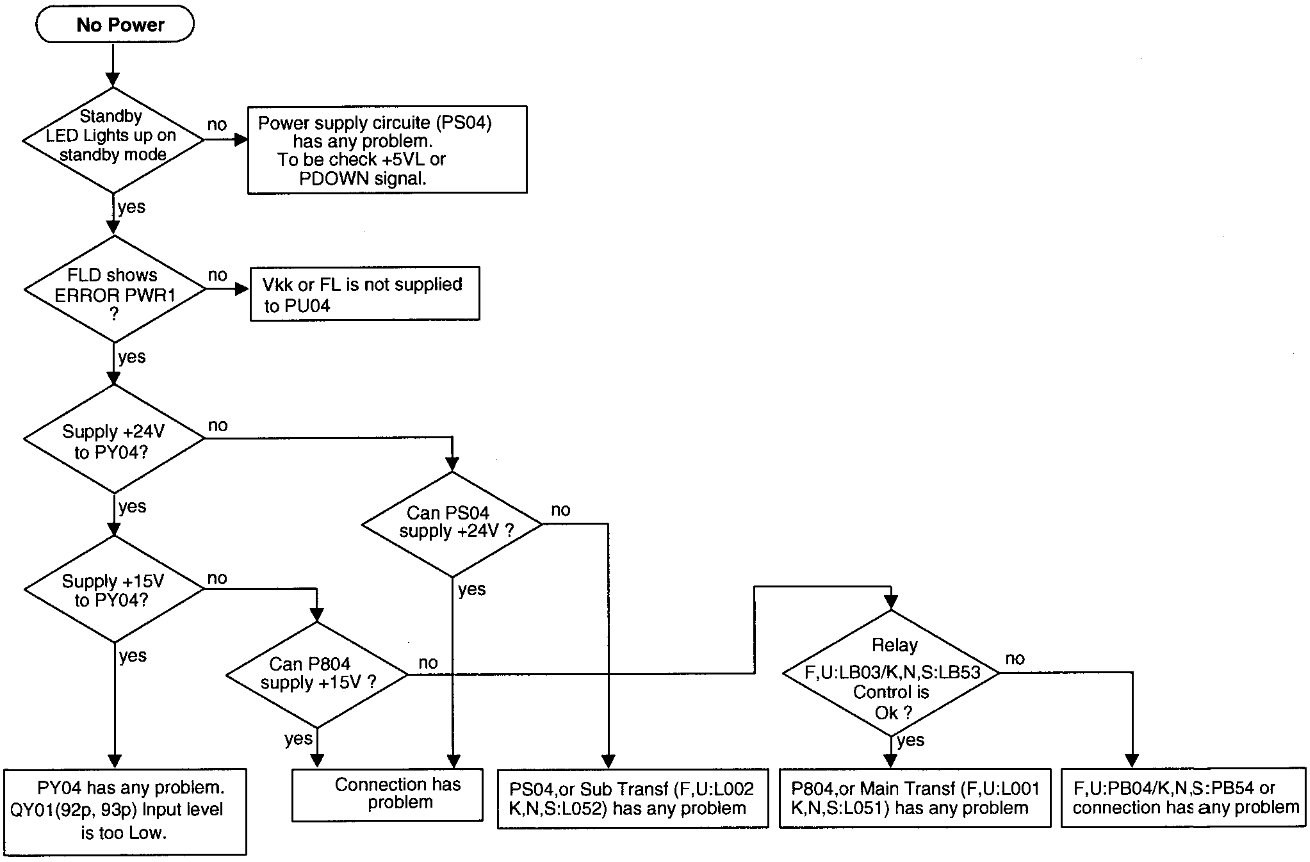
Adjust the **L channel** with the RF signal modulated only **L channel** first and confirm the **R channel** with the RF signal modulated only **R channel**.

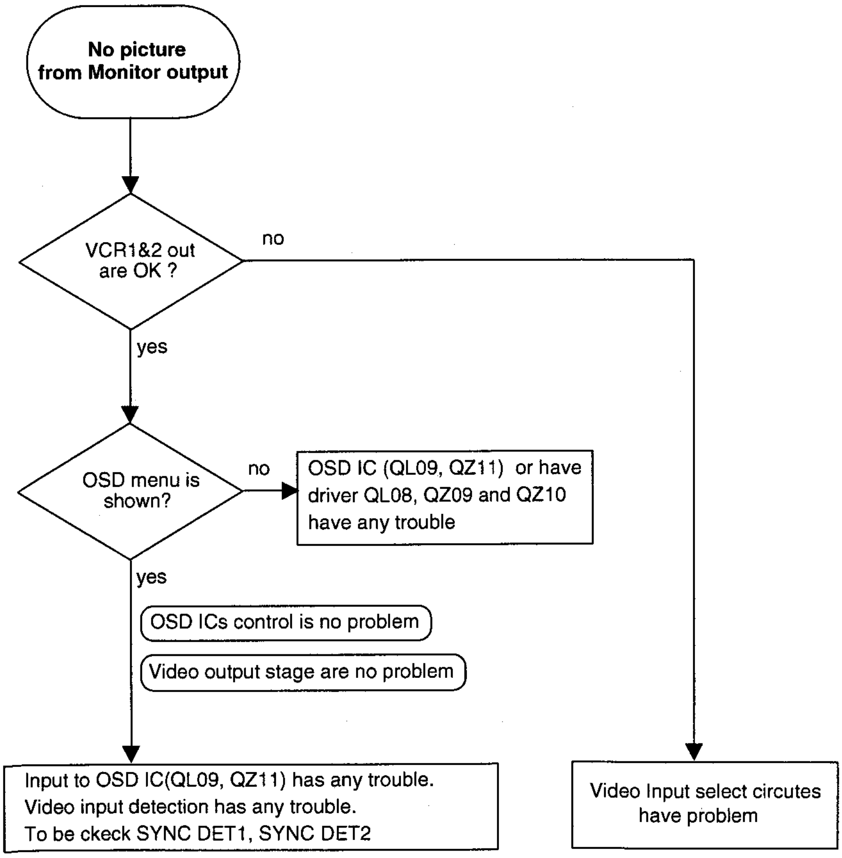
Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 Ω)	98 MHz (K, N, S, U) 83 MHz (F)	500 µV (54 dB) L or R 1 kHz / Dev. 40 kHz 53.3% PILOT 19 kHz / Dev. 6 kHz 8% (K, N, S) L or R 1 kHz / Dev. 67.5 kHz 90% PILOT 19 kHz / Dev. 6.75 kHz 9% (U, F)	98 MHz (K, N, S, U) 83 MHz (F)	IF COIL in FRONT END	Distortion level **Minimum** at TAPE-OUT
2					Only Confirm	Distortion level **Simimlar** as L ch. at TAPE-OUT R ch.

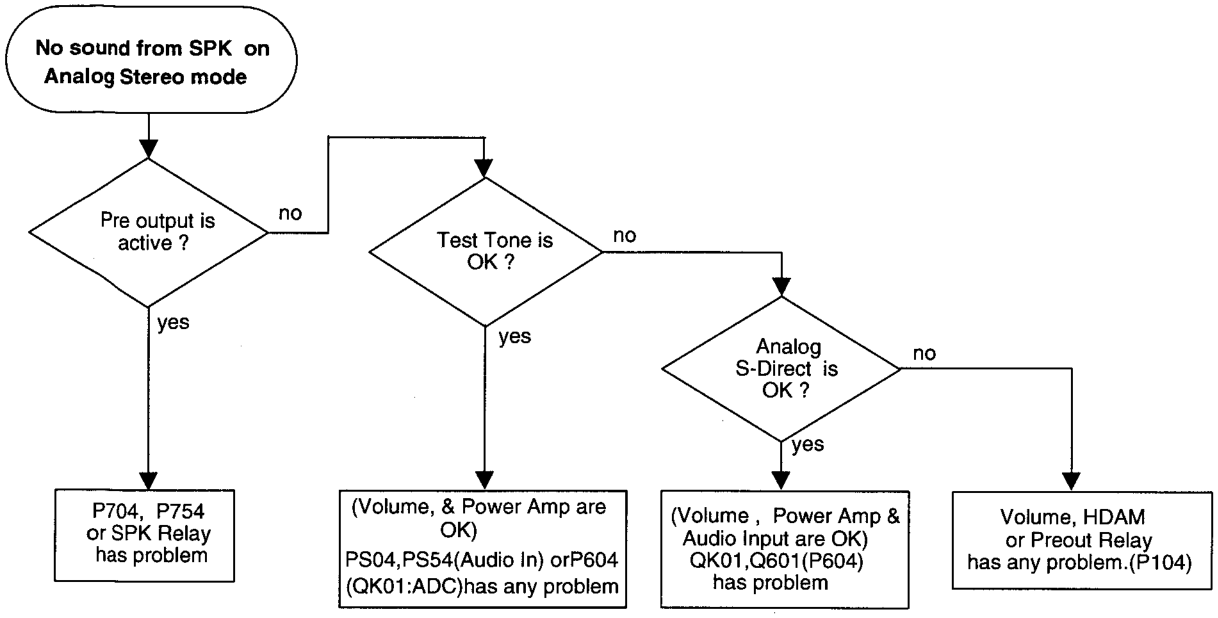
8. FM STEREO Separation Adjustment

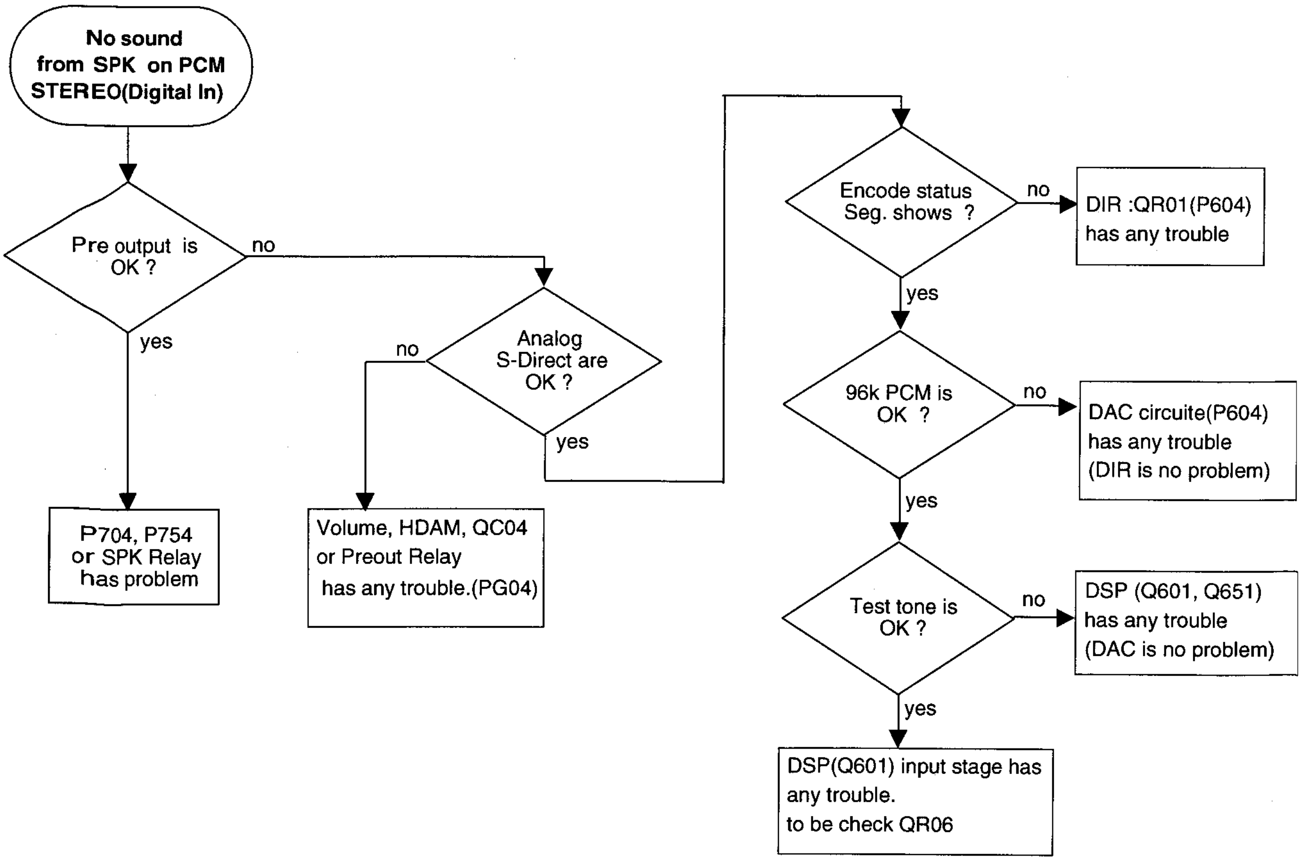
Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 Ω)	98 MHz (K, N, S, U) 83 MHz (F)	same specification as **FM STEREO distortion adjustment.** Input only **L** channel.	98 MHz (K, N, S, U) 83 MHz (F)	R211	Output level **Minimum** at TAPE-OUT channel **R**
2		98 MHz (K, N, S, U) 83 MHz (F)	same specification as **FM STEREO distortion adjustment.** Input only **R** channel.	98 MHz (K, N, S, U) 83 MHz (F)	R211	Output level **Similar** as Rch at TAPE-OUT channel **L**

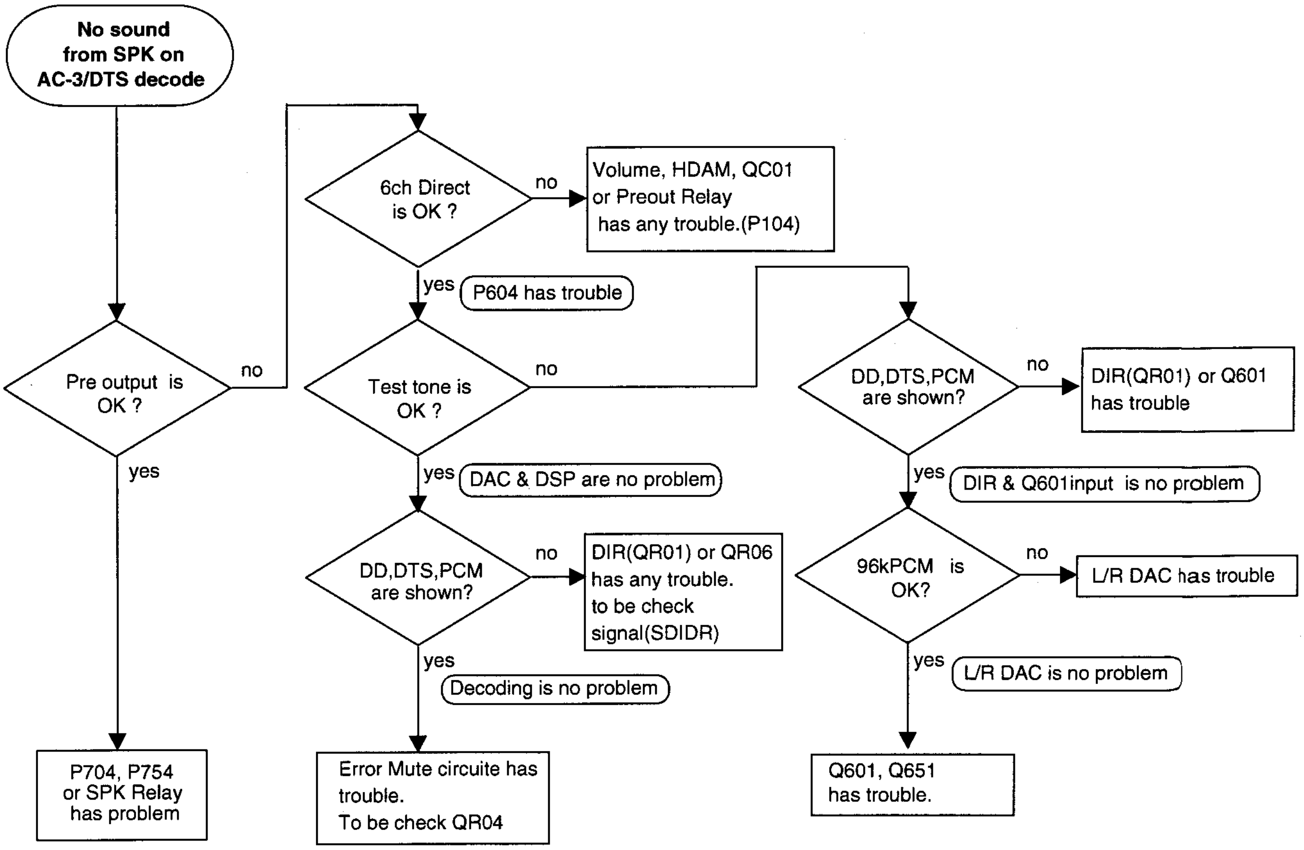
11. TROUBLE SHOOTING

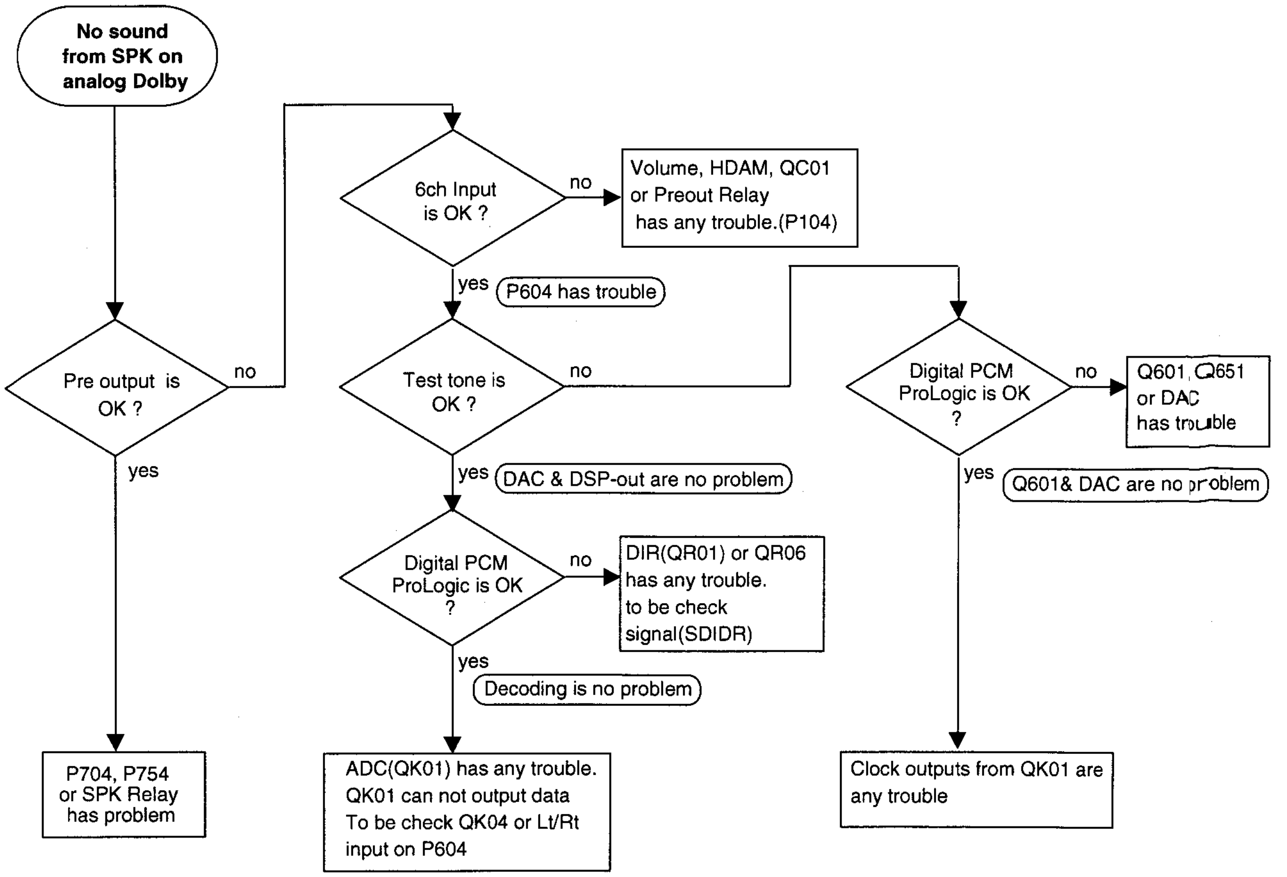

No Power
Standby LED Lights up on standby mode
no
Power supply circuite (PS04) has any problem. To be check +5VL or PDOWN signal.
yes
FLD shows ERROR PWR1 ?
no
Vkk or FL is not supplied to PU04
yes
Supply +24V to PY04?
no
yes
Can PS04 supply +24V ?
no
yes
Supply +15V to PY04?
no
yes
Can P804 supply +15V ?
no
yes
Relay F,U:LB03/K,N,S:LB53 Control is Ok ?
no
yes
PY04 has any problem. QY01(92p, 93p) Input level is too Low.
Connection has problem
PS04,or Sub Transf (F,U:L002 K,N,S:L052) has any problem
P804,or Main Transf (F,U:L001 K,N,S:L051) has any problem
F,U:PB04/K,N,S:PB54 or connection has any problem


No picture from Monitor output
VCR1&2 out are OK ?
no
yes
OSD menu is shown?
no
OSD IC (QL09, QZ11) or have driver QL08, QZ09 and QZ10 have any trouble
yes
OSD ICs control is no problem
Video output stage are no problem
Input to OSD IC(QL09, QZ11) has any trouble. Video input detection has any trouble. To be ckeck SYNC DET1, SYNC DET2
Video Input select circutes have problem


No sound from SPK on Analog Stereo mode
Pre output is active ?
no
yes
Test Tone is OK ?
no
yes
Analog S-Direct is OK ?
no
yes
P704, P754 or SPK Relay has problem
(Volume, & Power Amp are OK) PS04,PS54(Audio In) orP604 (QK01:ADC)has any problem
(Volume , Power Amp & Audio Input are OK) QK01,Q601(P604) has problem
Volume, HDAM or Preout Relay has any problem.(P104)


No sound from SPK on PCM STEREO(Digital In)
Pre output is OK ?
no
yes
Analog S-Direct are OK ?
no
yes
Encode status Seg. shows ?
no
yes
96k PCM is OK ?
no
yes
Test tone is OK ?
no
yes
P704, P754 or SPK Relay has problem
Volume, HDAM, QC04 or Preout Relay has any trouble.(PG04)
DIR :QR01(P604) has any trouble
DAC circuite(P604) has any trouble (DIR is no problem)
DSP (Q601, Q651) has any trouble (DAC is no problem)
DSP(Q601) input stage has any trouble. to be check QR06


No sound from SPK on AC-3/DTS decode
Pre output is OK ?
no
yes
P704, P754 or SPK Relay has problem
6ch Direct is OK ?
no
Volume, HDAM, QC01 or Preout Relay has any trouble.(P104)
yes
P604 has trouble
Test tone is OK ?
no
yes
DAC & DSP are no problem
DD,DTS,PCM are shown?
no
DIR(QR01) or QR06 has any trouble. to be check signal(SDIDR)
yes
Decoding is no problem
Error Mute circuite has trouble. To be check QR04
DD,DTS,PCM are shown?
no
DIR(QR01) or Q601 has trouble
yes
DIR & Q601input is no problem
96kPCM is OK?
no
L/R DAC has trouble
yes
L/R DAC is no problem
Q601, Q651 has trouble.


No sound from SPK on analog Dolby
Pre output is OK ?
no
yes
P704, P754 or SPK Relay has problem
6ch Input is OK ?
no
Volume, HDAM, QC01 or Preout Relay has any trouble.(P104)
yes
P604 has trouble
Test tone is OK ?
no
yes
DAC & DSP-out are no problem
Digital PCM ProLogic is OK ?
no
DIR(QR01) or QR06 has any trouble. to be check signal(SDIDR)
yes
Decoding is no problem
ADC(QK01) has any trouble. QK01 can not output data To be check QK04 or Lt/Rt input on P604
Digital PCM ProLogic is OK ?
no
Q601, Q651 or DAC has trouble
yes
Q601& DAC are no problem
Clock outputs from QK01 are any trouble

12. TECHNICAL DESCRIPTION

This product has two DSP ICs, one is for Dolby Digital (AC-3) decoding or DTS (Digital Theater System) decoding, another is for THX processing.
Multi channel sound is reproduced by connecting with DVD player or LD player.
Also Dolby Pro Logic decode is available to analog audio and PCM digital audio.
Additionally, 96kHz PCM stereo audio playback is possible.
Decoding circuit is consist of 13 ICs (DIR, two DSP, ADC, five DAC, AC-3 RF demodulator, two data separator and CPU).

DOLBY DIGITAL (AC-3)

Dolby Digital delivers six totally separate (discrete) channels of sound. Like Dolby Surround Pro Logic, it includes Left, Center and Right channels across the front of the room. Dolby Surround Pro Logic provides a single limited-bandwidth (100 Hz to 7,000 Hz) surround channel which is typically played back in the home through two channels of amplification and two speakers. In comparison, Dolby Digital provides separate (discrete) left surround and right surround channels, for more precise localization of sounds and a more convincing, realistic ambience. And, with Dolby Digital, all five main channels are full range (3 Hz to 20,000 Hz). A subwoofer could be added to each channel, if desired.
The sixth channel, the Low Frequency Effects Channel, will, at times, contain additional bass information to maximize the impact of scenes such as explosions, crashes, etc. Because this channel has only a limited frequency response (3 Hz to 120 Hz), it is sometimes referred to as the ".1" channel. When added to the 5 full range channels, the Dolby Digital system is sometimes referred to as having "5.1" channels.

DTS

An amazing new technology for surround-sound entertainment, DTS Digital Surround is an encode/decode system that delivers six channels (5.1) of master-quality, 20-bit audio. In the encoding process, the DTS algorithm encrypts six channels of 20-bit digital audio information in the space previously allotted for only two channels of 16-bit linear PCM. Then during playback, the DTS decoder reconstructs the original six channels of 20-bit digital audio. Each of these six channels is audibly superior to the 16-bit linear PCM audio found on conventional compact discs.

THX ULTRA

Home THX Controller Technologies : Dubbing stages (where soundtracks are created) and movie theatres do not change their acoustics, equipment, or system equalization when mixing or playing back 5.1 channel sound tracks. They merely divide the surround array of speakers into two symmetrical arrays (hence the term "split surround"). All of the remaining system equalization and setup remains the same. The Home THX Technologies of Re-Equalization, Timbre Matching, and Decorrelation, as well as the Home THX Crossover are still necessary for 5.1 channel formats. Because of the nature of the split surround soundtrack, Home THX Timbre Matching and Decorrelation technologies have been altered to provide correct surround sound balance and spaciousness. Here is a representation of how Home THX Controller Technologies work with the various surround sound formats.

THX SURROUND EX

THX Surround EX - Dolby Digital Surround EX is a joint development of Dolby Laboratories and the THX division of Lucasfilm Ltd.

In a movie theater, film soundtracks that have been encoded with Dolby Digital Surround EX technology are able to reproduce an extra channel which has been added during the mixing of the program.
This channel, called Surround Back, places sounds behind the listener in addition to the currently available front left, front center, front right, surround right, surround left and subwoofer channels.
This additional channel provides the opportunity for more detailed imaging behind the listener and brings more depth, spacious ambience and sound localization than ever before.
Movies that were created using the Dolby Digital Surround EX technology when released into the home consumer market may exhibit a Dolby Digital Surround EX logo on the packaging.
A list of movies created using this technology can be found on the Dolby web site at
http ://www.dolby.com.

"SURROUND EX ™ is a trademark of Dolby Laboratories. Used under authorization.

THX SURROUND EX

DIR (Digital audio Interface Receiver : QR01 / LC89055)

This circuit extract synchronized clock signals and data from SPDIF signal input.
QR01(LC89055) generates these signals, this chip supports 96kHz sample rate.

1st DSP (Digital Signal Processor for Dolby Digital, Pro Logic, DTS : Q601 /YSS912)

Q601(YSS912) decodes 6 channels audio from encoded data signal input.
Some effects are processed in addition to multi channel decoding on HALL, MATRIX, and MOVIE mode.

2nd DSP (Digital Signal Processor for THX processing : Q651 / ZR38601)

Q651(ZR38601) has the THX 5.1 processing functions. These functions include **Re-equalization, Surround Timbre-Matching, Adaptive Decorrelation, Bass Management, Bass Peak Level Manager,** and **Loudspeaker Position Time Synchronization.**
Re-equalization takes the edginess or "brightness" out of your home cinema sound, compensating for the fact that sound mixed for theatres will sound too bright when played back through flat response speakers in your home.
Timbre Matching matches the tone of your front speakers to your surrounds to compensate for the fact that only two surround speakers are used in a typical Home Theatre system instead of a full array as in a movie theatre.
Adaptive Decorrelation gives a stereo "feel" when your surrounds are playing mono and automatically switches off when they are playing stereo.
Bass Management Electronic Crossover allows you to use more compact, easier-to-place speakers, while sending bass to a subwoofer system, improving frequency response, lowering distortion and increasing dynamic range.
Bass Peak Level Manager protects your subwoofer from overloading due to the great amount of bass a 5.1 soundtrack delivers.
Loudspeaker Position Time Synchronization lets you easily set up your system for an optimum listening position, which is difficult to achieve within the space constraints of most homes.

ADC (Analog to Digital Converter : QK01 / AK5392)

AK5392 is a complete analog-to-digital converter for stereo digital audio systems. it performs sampling, analog-to-digital conversion and anti-alias filtering, generating 24 bit values for both left and right inputs in serial form.

DAC (Digital to Analog Converter : QD01, QD02, QD03 : QD41, QD42 / AD1852)

The AD1852 is a high performance, single-chip stereo,audio DAC. There are five AD1855 chips on the board. Four chips are used for L, R, C, and Sub woofer channel individually. Another chip is used for Surround Left & Right.

CPU (Q691 / TMP93CW44ADF)

This chip controls some ICs in P604 and communicates with QU01.
Connect to QU01 with serial interface lines.

13. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTORS

R***: 1) GD05 ××× 140, Carbon film fixed resistor, ±5% 1/4W
$\overline{\text{R***}}$: 2) GD05 $\underbrace{\times\times\times}_{\text{①}}$ 160, Carbon film fixed resistor, ±5% 1/6W
① —— Resistance value

Examples ;
① Resistance value
0.1 Ω.... 001　10 Ω .... 100　1 kΩ .... 102　100 kΩ.... 104
0.5 Ω.... 005　18 Ω .... 180　2.7 kΩ .... 272　680 kΩ.... 684
1 Ω.... 010　100 Ω .... 101　10 kΩ .... 103　1 MΩ.... 105
6.8 Ω.... 068　390 Ω .... 391　22 kΩ .... 223　4.7 MΩ.... 475

Note : Please distinguish 1/4W from 1/6W by the shape of parts used actually.

CAPACITORS

C***: CERAMIC CAP.
3) DD1 $\underbrace{\times}_{\text{②}}\underbrace{\times\times\times}_{\text{③}}$ 370, Ceramic capacitor
Disc type
Temp.coeff.P350 ~N1000, 50V
③ —— Capacity value
② —— Tolerance

Examples ;
② Tolerance (Capacity deviation)
±0.25 pF 0
±0.5 pF 1
±5% 5

∗ Tolerance of COMMON PARTS handled here are as follows :
0.5 pF ~ 5 pF .... ±0.25 pF
6 pF ~ 10 pF .... ±0.5 pF
12 pF ~ 560 pF .... ±5%

③ Capacity value
0.5 pF .... 005　3 pF .... 030　100 pF 101
1 pF .... 010　10 pF .... 100　220 pF 221
1.5 pF .... 015　47 pF .... 470　560 pF 561

C*** : CERAMIC CAP.
4) DK16 $\underbrace{\times\times\times}_{\text{④}}$ 300, High dielectric constant ceramic capacitor
Disc type
Temp.chara. 2B4, 50V
④ —— Capacity value

Examples ;
④ Capacity value
100 pF .... 101　1000 pF .... 102　10000 pF 103
470 pF .... 471　2200 pF 222

$\overline{\text{C***}}$: 5) ELECTROLY CAP. (+╪), 6) FILM CAP. (╪)
5) EA $\underbrace{\times\times\times}_{\text{⑤}}\,\underbrace{\times\times\times}_{\text{⑥}}$ 10, Electrolytic capacitor
One-way lead type, Tolerance ±20%
⑥ —— Working voltage
⑤ —— Capacity value

Examples ;
⑤ Capacity value
0.1 µF .... 104　4.7 µF .... 475　100 µF 107
0.33 µF .... 334　10 µF .... 106　330 µF 337
1 µF .... 105　22 µF .... 226　1100 µF 118
2200 µF 228

⑥ Working voltage
6.3V .... 006　25V 025
10V .... 010　35V 035
16V .... 016　50V 050

6) DF15 ××× 350 ┐→ Plastic film capacitor
DF15 ××× 310 ┘ One-way type, Mylar ±5% 50V
DF16 $\underbrace{\times\times\times}_{\text{⑦}}$ 310 → Plastic film capacitor
One-way type, Mylar ±10% 50V
⑦ —— Capacity value

Examples ;
⑦ Capacity value
0.001 µF (1000 pF) .... 102　0.1 µF 104
0.0018 µF .... 182　0.56 µF 564
0.01 µF .... 103　1 µF 105
0.015 µF 153

NOTE : 1) The above CODES (R***, $\overline{\text{R***}}$, C***, C*** and $\overline{\text{C***}}$) are omitted on the schematic diagram in some case.
2) On the occasion, be confirmed the common parts on the parts list.
3) Refer to "Common Parts List" for the other common parts (**RI05**, **DD4**, **DK4**).

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows;

1. KOA Corporation

Part No. (MJI)		Type No. (KOA)	Description
NH05 ××× 140	→	RF25S ×××× ΩJ	(±5% 1/4W)
NH05 ××× 120	→	RF50S ×××× ΩJ	(±5% 1/2W)
NH85 ××× 110	→	RF73B2A ×××× ΩJ	(±5% 1/10W)
NH95 ××× 140	→	RF73B2E ×××× ΩJ	(±5% 1/4W)

∗ Resistance value　　Resistance value (0.1 Ω – 10 kΩ)

2. Matsushita Electronic Components Co., Ltd

Part No. (MJI)		Type No. (MEC)	Description
NF05 ××× 140	→	ERD-2FCJ ×××	(±5% 1/4W)
RF05 ××× 140			
NF02 ××× 140	→	ERD-2FCG ×××	(±2% 1/4W)
RF02 ××× 140			

∗ Resistance value　　∗ Resistance value

Examples ;
∗ Resistance value
0.1 Ω.... 001　10 Ω .... 100　1 kΩ .... 102　100 kΩ.... 104
0.5 Ω.... 005　18 Ω .... 180　2.7 kΩ .... 272　680 kΩ.... 684
1 Ω.... 010　100 Ω .... 101　10 kΩ .... 103　1 MΩ.... 105
6.8 Ω.... 068　390 Ω .... 391　22 kΩ .... 223　4.7 MΩ.... 475

ABBREVIATION AND MARKS

ANT.	: ANTENNA	BATT.	: BATTERY
CAP.	: CAPACITOR	CER.	: CERAMIC
CONN.	: CONNECTING	DIG.	: DIGITAL
HP	: HEADPHONE	MIC.	: MICROPHONE
µ-PRO	: MICROPROCESSOR	REC.	: RECORDING
RES.	: RESISTOR	SPK	: SPEAKER
SW	: SWITCH	TRANSF.	: TRANSFORMER
TRIM.	: TRIMMING	TRS.	: TRAMSISTOR
VAR.	: VARIABLE	X'TAL	: CRYSTAL

NOTE ON SAFETY :

Symbol ⚠ Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol ⚠ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意：

⚠がついている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用して下さい。

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			P104-7CH ELE.VOL. TUNER CIRCUIT BOARD	
			P104-CAPACITORS	
CA01		4822 125 50384	TRIM. 20pF VCT51E	CT12000200
CA02			CER.CHIP 0.047µF B 50V	DK56473300
CA03		4822 122 33204	CER.CHIP 15pF	DD55150300
CA04		4822 121 42466	FILM 390pF 100V ECQ-P	DF15391550
CA05		5322 122 32452	CER.CHIP 47pF CH	DD55470300
CA06		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CA07	/N	5322 122 34098	CER.CHIP 0.01µF Z 50V	DK56103300
CA08	/N	4822 125 50384	TRIM. 20pF VCT51E	CT12000200
CA09	/N	4822 122 33204	CER.CHIP 15pF J CH 50V BLK	DD55150300
CA11	/N	4822 122 33514	CER.CHIP 68pF J CH 50V BLK	DD55680300
CA12	/N	5322 122 33538	CER.CHIP 150pF J CH 50V BLK	DD55151300
CA13	/N	5322 122 34098	CER.CHIP 0.01µF Z 50V	DK56103300
CA14	/N	5322 122 34098	CER.CHIP 0.01µF Z 50V	DK56103300
CA18		4822 124 80067	ELECT. 4.7µF M 50V RA-2	OA47505020
CC05		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CC06		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CC07		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CC08		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CC25		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CC26		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CC27		5322 122 32531	CER.CHIP 100pF	DD55101300
CC29		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CC30		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CC31		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CC32		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CC33		4822 126 12061	CER.CHIP 0.1µF B 25V	DK56104200
∫				
CC37				
CC40		4822 124 41796	ELECT. 22µF M 16V RA-2	OA22601620
CG51		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CG52		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CG53		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CG54		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CG55		5322 122 32531	CER.CHIP 100pF	DD55101300
CG56		5322 122 32531	CER.CHIP 100pF	DD55101300
CG57		9965 000 06288	ELECT. 22µF 25V	EA22602520
CG58		9965 000 06288	ELECT. 22µF 25V	EA22602520
CG59		4822 124 41796	ELECT. 22µF M 16V RA-2	OA22601620
CG59	/F		ELECT. 22µF M 25V ARS	OA22602540
CG60		4822 124 41796	ELECT. 22µF M 16V RA-2	OA22601620
CG60	/F		ELECT. 22µF M 25V ARS	OA22602540
CG61		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CG62		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CG63		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CG64		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CG65		5322 122 32531	CER.CHIP 100pF	DD55101300
CG66		5322 122 32531	CER.CHIP 100pF	DD55101300
CG67		9965 000 06289	ELECT. 47µ! 16V	EA47601620
CG67	/F		ELECT. 47µF M 16V ARS	OA47601640
CG68		9965 000 06289	ELECT. 47µ! 16V	EA47601620
CG68	/F		ELECT. 47µF M 16V ARS	OA47601640
CG69		4822 126 12061	CER.CHIP 0.1µF B 25V	DK56104200
CG70		4822 126 12061	CER.CHIP 0.1µF B 25V	DK56104200
CG71		4822 124 22698	ELECT. 47µF M 25V RA-2	OA47602520
CG72		4822 124 22698	ELECT. 47µF M 25V RA-2	OA47602520
CG73		5322 122 32531	CER.CHIP 100pF	DD55101300
CG75		9965 000 06288	ELECT. 22µF 25V	EA22602520
CG76		9965 000 06288	ELECT. 22µF 25V	EA22602520
CM01			CER.CHIP 470pF	DD55471300
∫				
CM08				
CM09		5322 122 32531	CER.CHIP 100pF	DD55101300
CM10		4822 126 12061	CER.CHIP 0.1µF B 25V	DK56104200
CM11		4822 126 12061	CER.CHIP 0.1µF B 25V	DK56104200

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CM12		4822 124 22277	ELECT. 470µF 16V M RA-2	OA47701620
CM21		4822 122 33575	CER.CHIP 220pF	DD55221300
∫				
CM28				
CM29			CER.CHIP 470pF	DD55471300
∫				
CM35				
CV01		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CV02		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CV03		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CV04		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CV05		5322 122 32531	CER.CHIP 100pF	DD55101300
CV06		5322 122 32531	CER.CHIP 100pF	DD55101300
CV07		9965 000 06288	ELECT. 22µF 25V	EA22602520
CV08		9965 000 06288	ELECT. 22µF 25V	EA22602520
CV09		4822 124 41796	ELECT. 22µF M 16V RA-2	OA22601620
CV10		4822 124 41796	ELECT. 22µF M 16V RA-2	OA22601620
CV11		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CV12		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CV13		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CV14		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CV15		5322 122 32531	CER.CHIP 100pF	DD55101300
CV16		5322 122 32531	CER.CHIP 100pF	DD55101300
CV17		9965 000 06289	ELECT. 47µ! 16V	EA47601620
CV17	/F		ELECT. 47µF M 25V ARS	OA47601640
CV18		9965 000 06289	ELECT. 47µ! 16V	EA47601620
CV18	/F		ELECT. 47µF M 25V ARS	OA47601640
CV19		4822 126 12061	CER.CHIP 0.1µF B 25V	DK56104200
CV20		4822 126 12061	CER.CHIP 0.1µF B 25V	DK56104200
CV21		4822 124 22698	ELECT. 47µF M 25V RA-2	OA47602520
CV22		4822 124 22698	ELECT. 47µF M 25V RA-2	OA47602520
CV23		5322 122 32531	CER.CHIP 100pF	DD55101300
CV25		9965 000 06288	ELECT. 22µF 25V	EA22602520
CV26		9965 000 06288	ELECT. 22µF 25V	EA22602520
CV27		5322 122 32531	CER.CHIP 100pF	DD55101300
CV28		5322 122 32531	CER.CHIP 100pF	DD55101300
CV29		9965 000 06288	ELECT. 22µF 25V	EA22602520
CV30		9965 000 06288	ELECT. 22µF 25V	EA22602520
CV31		4822 124 90362	ELECT. 22µF M 50V RA-2	OA22605020
CV31	/F		ELECT. 22µF M 35V ARS	OA22603540
CV32		4822 124 90362	ELECT. 22µF M 50V RA-2	OA22605020
CV32	/F		ELECT. 22µF M 35V ARS	OA22603540
CV41		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CV42		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CV43		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CV44		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CV45		5322 122 32531	CER.CHIP 100pF	DD55101300
CV46		5322 122 32531	CER.CHIP 100pF	DD55101300
CV47		9965 000 06288	ELECT. 22µF 25V	EA22602520
CV48		9965 000 06288	ELECT. 22µF 25V	EA22602520
CV49		4822 124 41796	ELECT. 22µF M 16V RA-2	OA22601620
CV49	/F		ELECT. 22µF M 25V ARS	OA22602540
CV50		4822 124 41796	ELECT. 22µF M 16V RA-2	OA22601620
CV50	/F		ELECT. 22µF M 25V ARS	OA22602540
CV51		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CV52		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CV53		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CV54		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CV55		5322 122 32531	CER.CHIP 100pF	DD55101300
CV56		5322 122 32531	CER.CHIP 100pF	DD55101300
CV57		9965 000 06289	ELECT. 47µ! 16V	EA47601620
CV57	/F		ELECT. 47µF M 16V ARS	OA47601640
CV58		9965 000 06289	ELECT. 47µ! 16V	EA47601620
CV58	/F		ELECT. 47µF M 16V ARS	OA47601640
CV59		4822 126 12061	CER.CHIP 0.1µF B 25V	DK56104200
CV60		4822 126 12061	CER.CHIP 0.1µF B 25V	DK56104200
CV61		4822 124 22698	ELECT. 47µF M 25V RA-2	OA47602520
CV62		4822 124 22698	ELECT. 47µF M 25V RA-2	OA47602520

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CV63		5322 122 32531	CER.CHIP 100pF	DD55101300
CV65		4822 124 41534	ELECT. 10µF M 25V RA-2	OA10602520
CV66		4822 124 41534	ELECT. 10µF M 25V RA-2	OA10602520
CV71		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CV73		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CV74		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CV75		5322 122 32531	CER.CHIP 100pF	DD55101300
CV76		5322 122 32531	CER.CHIP 100pF	DD55101300
CV77		9965 000 06288	ELECT. 22µF 25V	EA22602520
CV78		9965 000 06288	ELECT. 22µF 25V	EA22602520
CV79		4822 124 41796	ELECT. 22µF M 16V RA-2	OA22601620
CV79	/F		ELECT. 22µF M 25V ARS	OA22602540
CV80		4822 124 41796	ELECT. 22µF M 16V RA-2	OA22601620
CV81		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CV82		4822 124 22276	ELECT. 47µF M 50V RA-2	OA47605020
CV83		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CV84		5322 122 34098	CER.CHIP 0.01µF	DK56103300
CV85		5322 122 32531	CER.CHIP 100pF	DD55101300
CV86		5322 122 32531	CER.CHIP 100pF	DD55101300
CV87		9965 000 06289	ELECT. 47µ! 16V	EA47601620
CV87	/F		ELECT. 47µF M 16V ARS	OA47601640
CV88		9965 000 06289	ELECT. 47µ! 16V	EA47601620
CV89		4822 126 12061	CER.CHIP 0.1µF B 25V	DK56104200
CV90		4822 126 12061	CER.CHIP 0.1µF B 25V	DK56104200
CV91		4822 124 22698	ELECT. 47µF M 25V RA-2	OA47602520
CV92		4822 124 22698	ELECT. 47µF M 25V RA-2	OA47602520
CV93		5322 122 32531	CER.CHIP 100pF	DD55101300
CV95		9965 000 06288	ELECT. 22µF 25V	EA22602520
CV96		9965 000 06288	ELECT. 22µF 25V	EA22602520
C201		5322 122 34098	CER.CHIP 0.01µF	DK56103300
C202		5322 122 34098	CER.CHIP 0.01µF	DK56103300
C203			CER.CHIP 0.047µF B 50V	DK56473300
C204			CER.CHIP 0.047µF B 50V	DK56473300
C205		4822 124 42182	ELECT. 3.3µF M 50V	OA33505020
C206		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
C207		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C208			CER.CHIP 0.047µF B 50V	DK56473300
C209		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
C210		5322 122 34098	CER.CHIP 0.01µF	DK56103300
C211		4822 124 40763	ELECT. 2.2µF M 50V RA-2	OA22505020
C212		4822 124 41543	ELECT. 1µF M 50V RA-2	OA10505020
C213		4822 124 22273	ELECT. 0.47µF M 50V RA-2	OA47405020
C214		4822 124 22698	ELECT. 47µF M 25V RA-2	OA47602520
C215			CER.CHIP 0.047µF B 50V	DK56473300
C216		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620
C218		5322 122 34098	CER.CHIP 0.01µF	DK56103300
C219		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
C220		4822 122 33127	CER.CHIP 2200pF	DK56222300
C222		5322 126 10511	CER.CHIP 0.001µF	DK56102300
C223		5322 122 34098	CER.CHIP 0.01µF	DK56103300
C225		5322 122 34098	CER.CHIP 0.01µF	DK56103300
C226		5322 122 34098	CER.CHIP 0.01µF	DK56103300
C227	/U	4822 122 33127	CER.CHIP 2200pF	DK56222300
C233		5322 122 34098	CER.CHIP 0.01µF	DK56103300
C234		4822 124 80067	ELECT. 4.7µF M 50V RA-2	OA47505020
C235		5322 122 34098	CER.CHIP 0.01µF	DK56103300
C236		5322 122 34098	CER.CHIP 0.01µF	DK56103300
C237		5322 122 34098	CER.CHIP 0.01µF	DK56103300
C303		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
C304		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
C305	/K,/N,/S	4822 124 80067	ELECT. 4.7µF M 50V RA-2	OA47505020
C305	/U	4822 124 80067	ELECT. 4.7µF M 50V RA-2	OA47505020
C306	/K,/N,/S	4822 124 80067	ELECT. 4.7µF M 50V RA-2	OA47505020
C306	/U	4822 124 80067	ELECT. 4.7µF M 50V RA-2	OA47505020
C309	18A /K, /S	482212233134	CER.CHIP 15000pF	DK56153300
C310	18A /K, /S	482212233134	CER.CHIP 15000pF	DK56153300

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
C311	/K,/N,/S	4822 124 80067	ELECT. 4.7µF M 50V RA-2	OA47505020
C311	/U		JUMPER	75060501P0
C312	/K,/N,/S	4822 124 80067	ELECT. 4.7µF M 50V RA-2	OA47505020
C312	/U		JUMPER	75060501P0
C315	/K,/N,/S	5322 122 34098	CER.CHIP 0.01µF	DK56103300
C316	/K,/N,/S	5322 122 34098	CER.CHIP 0.01µF	DK56103300
C317	/K,/N,/S	5322 122 32531	CER.CHIP 100pF	DD55101300
C318	/K,/N,/S	5322 122 32531	CER.CHIP 100pF	DD55101300
C319	/K,/N,/S	4822 124 80067	ELECT. 4.7µF M 50V RA-2	OA47505020
C320	/K,/N,/S	4822 124 80067	ELECT. 4.7µF M 50V RA02	OA47505020
C351	/N, /S	5322 122 34098	CER.CHIP 10000pF	DK56103300
C352	/N, /S	5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
C353	/N, /S	4822 122 33805	CER.CHIP 330pF	DK56331300
C354	/N, /S	4822 122 33137	CER.CHIP 560pF	DK56561300
C355	/N, /S	5322 122 34098	CER.CHIP 10000pF	DK56103300
C356	/N, /S	5322 122 32658	CER.CHIP 22pF	DD55220300
C357	/N, /S	5322 122 31946	CER.CHIP 27pF	DD55270300
C358	/N, /S	5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
C359	/N, /S	5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
C360	/N, /S	5322 126 10511	CER.CHIP 1000pF	DK56102300
C361 ∫ C364	/N, /S	5322 122 32531	CER.CHIP 100pF	DD55101300
C367 ∫ C372		5322 122 32531	CER.CHIP 100pF	DD55101300
C501		5322 122 32452	CER.CHIP 47pF CH	DD55470300
C502		5322 122 32452	CER.CHIP 47pF CH	DD55470300
C503		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C504		5322 122 34098	CER.CHIP 0.01µF	DK56103300
C505		4822 124 40763	ELECT. 2.2µF 50V	OA22505020
C507		5322 122 34098	CER.CHIP 0.01µF	DK56103300
C508		4822 124 90354	ELECT. 100µF M 16V RA-2	OA10701620
C509		5322 122 34098	CER.CHIP 0.01µF	DK56103300
C510		5322 122 32531	CER.CHIP 100pF	DD55101300
C511		5322 122 34098	CER.CHIP 0.01µF	DK56103300
			P104-CAPACITORS (COMMON)	
C***			PLASTIC FILM CAPACITOR ±5% 50V : C217 C301C302 CC01-CC04	
			P104-RESISTORS	
RA01		4822 117 10833	CHIP 10kΩ ±5% 1/10W	NI051031 10
RA02		4822 111 90896	CHIP 100kΩ ±5% 1/10W	NI051041 10
RA03	/N	4822 117 10833	CHIP 10kΩ ±5% 1/10W	NI051031 10
RA04	/N	4822 051 20154	CHIP 150kΩ ±5% 1/10W	NI051541 10
RA06	/N	4822 111 90896	CHIP 100kΩ ±5% 1/10W	NI051041 10
RA07	/N	4822 117 10833	CHIP 10kΩ ±5% 1/10W	NI051031 10
RA08	/N	4822 051 20154	CHIP 150kΩ ±5% 1/10W	NI051541 10
RA09	/N	4822 117 11449	CHIP 2.2kΩ ±5% 1/10W	NI052221 10
RA10	/N	4822 117 10833	CHIP 10kΩ ±5% 1/10W	NI051031 10
RA11		4822 100 11351	TRIM.RES. 10kΩ RH0638CJ4R	RA01030780
RA12	/N,/S,/U	4822 111 90892	CHIP 0Ω ±5% 1/10W	NI050001 10
RA13	/N,/S,/U	4822 111 90892	CHIP 0Ω ±5% 1/10W	NI050001 10
RA14	/N,/S,/U	4822 111 90892	CHIP 0Ω ±5% 1/10W	NI050001 10
RA59		4822 051 20102	CHIP 1kΩ ±5% 1/10W	NI051021 10
RC01		4822 117 11383	CHIP 12kΩ ±5% 1/10W	NI051231 10
RC02		4822 117 11383	CHIP 12kΩ ±5% 1/10W	NI051231 10
RC05		4822 051 20273	CHIP 27kΩ ±5% 1/10W	NI052731 10
RC06		4822 051 20273	CHIP 27kΩ ±5% 1/10W	NI052731 10
RC09		4822 111 90896	CHIP 100kΩ ±5% 1/10W	NI051041 10
RC10		4822 111 90896	CHIP 100kΩ ±5% 1/10W	NI051041 10
RC32		4822 051 20101	CHIP 100Ω ±5% 1/10W	NI051011 10
RC33		4822 111 90896	CHIP 100kΩ ±5% 1/10W	NI051041 10
RC34		4822 117 10833	CHIP 10kΩ ±5% 1/10W	NI051031 10
RC35		4822 117 10833	CHIP 10kΩ ±5% 1/10W	NI051031 10
RC36		4822 050 21021	RES. 100Ω ±5% 1/2W	GG05101 120
RC40		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI054731 10

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RG53				
≀		4822 117 10833	CHIP 10kΩ ±5% 1/10W	NI05103110
RG56				
RG57		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RG58		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RG59		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RG60		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RG61		4822 051 20562	CHIP 5.6kΩ ±5% 1/10W	NI05562110
RG62		4822 051 20562	CHIP 5.6kΩ ±5% 1/10W	NI05562110
RG63		4822 111 90918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
RG64		4822 111 90918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
RG65		4822 051 20822	CHIP 8.2kΩ ±5% 1/10W	NI05822110
RG66		4822 051 20822	CHIP 8.2kΩ ±5% 1/10W	NI05822110
RG67		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RG68		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RG70		4822 051 20101	CHIP 100Ω ±5% 1/10W	NI05101110
RG73		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RG74		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RM01		4822 051 20331	CHIP 330Ω ±5% 1/10W	NI05331110
RM02		4822 051 20331	CHIP 330Ω ±5% 1/10W	NI05331110
RM03		4822 111 90918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
RM04		4822 111 90918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
RM05		4822 116 90503	CHIP 150Ω ±5% 1/10W	NI05151110
RM06		4822 116 90503	CHIP 150Ω ±5% 1/10W	NI05151110
RM11		4822 051 20331	CHIP 330Ω ±5% 1/10W	NI05331110
RM12		4822 051 20331	CHIP 330Ω ±5% 1/10W	NI05331110
RM13		4822 111 90918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
RM14		4822 111 90918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
RM15		4822 116 90503	CHIP 150Ω ±5% 1/10W	NI05151110
RM16		4822 116 90503	CHIP 150Ω ±5% 1/10W	NI05151110
RM21		4822 051 20331	CHIP 330Ω ±5% 1/10W	NI05331110
RM22		4822 051 20331	CHIP 330Ω ±5% 1/10W	NI05331110
RM23		4822 111 90918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
RM24		4822 111 90918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
RM25		4822 116 90503	CHIP 150Ω ±5% 1/10W	NI05151110
RM26		4822 116 90503	CHIP 150Ω ±5% 1/10W	NI05151110
RM31		4822 051 20331	CHIP 330Ω ±5% 1/10W	NI05331110
RM32		4822 051 20331	CHIP 330Ω ±5% 1/10W	NI05331110
RM33		4822 111 90918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
RM34		4822 111 90918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
RM35		4822 116 90503	CHIP 150Ω ±5% 1/10W	NI05151110
RM36		4822 116 90503	CHIP 150Ω ±5% 1/10W	NI05151110
RM46		4822 051 20102	CHIP 1kΩ ±5% 1/10W	NI05102110
RM51		4822 050 21021	RES. 100Ω ±5% 1/2W	GG05101120
RM52		4822 117 10833	CHIP 10kΩ ±5% 1/10W	NI05103110
RM53		4822 051 20223	CHIP 22kΩ ±5% 1/10W	NI05223110
RM54		9965 000 06285	RES. COMPO. RKLB5105J	BW05105020
RM55		4822 051 20101	CHIP 100Ω ±5% 1/10W	NI05101110
RV03				
≀		4822 117 10833	CHIP 10kΩ ±5% 1/10W	NI05103110
RV06				
RV07		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV08		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV09		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV10		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV11		4822 051 20562	CHIP 5.6kΩ ±5% 1/10W	NI05562110
RV12		4822 051 20562	CHIP 5.6kΩ ±5% 1/10W	NI05562110
RV13		4822 111 90918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
RV14		4822 111 90918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
RV15		4822 051 20822	CHIP 8.2kΩ ±5% 1/10W	NI05822110
RV16		4822 051 20822	CHIP 8.2kΩ ±5% 1/10W	NI05822110
RV17		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV18		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV19		4822 111 91192	CHIP 470Ω ±5% 1/10W	NI05471110
RV20		4822 111 91192	CHIP 470Ω ±5% 1/10W	NI05471110
RV21		4822 051 20101	CHIP 100Ω ±5% 1/10W	NI05101110
RV23		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV24		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RV25		4822 111 90896	CHIP 100kΩ ±5% 1/10W	NI05104110
RV26		4822 111 90896	CHIP 100kΩ ±5% 1/10W	NI05104110
RV31				
≀		4822 052 10103	RES. 10kΩ ±5% 1/6W	GG05103160
RV34				
RV35				
≀		4822 052 10229	RES. 22Ω ±5% 1/6W	GG05220160
RV38				
RV43				
≀		4822 117 10833	CHIP 10kΩ ±5% 1/10W	NI05103110
RV46				
RV47		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV48		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV49		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV50		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV51		4822 051 20562	CHIP 5.6kΩ ±5% 1/10W	NI05562110
RV52		4822 051 20562	CHIP 5.6kΩ ±5% 1/10W	NI05562110
RV53		4822 111 90918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
RV54		4822 111 90918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
RV55		4822 051 20822	CHIP 8.2kΩ ±5% 1/10W	NI05822110
RV56		4822 051 20822	CHIP 8.2kΩ ±5% 1/10W	NI05822110
RV57		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV58		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV60		4822 051 20101	CHIP 100Ω ±5% 1/10W	NI05101110
RV63		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV64		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV73		4822 117 10833	CHIP 10kΩ ±5% 1/10W	NI05103110
RV75		4822 117 10833	CHIP 10kΩ ±5% 1/10W	NI05103110
RV76		4822 111 90892	CHIP 0Ω ±5% 1/10W	NI05000110
RV77		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV78		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV79		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV80		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV81		4822 051 20562	CHIP 5.6kΩ ±5% 1/10W	NI05562110
RV82		4822 117 11139	CHIP 1.5kΩ ±5% 1/10W	NI05152110
RV83		4822 111 90918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
RV84		4822 051 20182	CHIP 1.8kΩ ±5% 1/10W	NI05182110
RV85		4822 051 20822	CHIP 8.2kΩ ±5% 1/10W	NI05822110
RV86		4822 117 10833	CHIP 10kΩ ±5% 1/10W	NI05103110
RV87		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV88		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV89		4822 051 20101	CHIP 100Ω ±5% 1/10W	NI05101110
RV90		4822 051 20101	CHIP 100Ω ±5% 1/10W	NI05101110
RV93		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
RV94		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
⚠ R101	/U	4822 050 21003	RES. 10kΩ ±5% 1/2W	GG05103120
R201	/K,/N,/S	4822 051 20101	CHIP 100Ω ±5% 1/10W	NI05101110
R201	/U	4822 111 90892	CHIP 0Ω ±5% 1/10W	NI05000110
R202		4822 051 20391	CHIP 390Ω ±5% 1/10W	NI05391110
R203		4822 117 11449	CHIP 2.2kΩ ±5% 1/10W	NI05222110
R204		4822 111 91192	CHIP 470Ω ±5% 1/10W	NI05471110
R205		4822 051 20331	CHIP 330Ω ±5% 1/10W	NI05331110
R206		4822 111 91139	CHIP 6.8kΩ ±5% 1/10W	NI05682110
⚠ R207		4822 050 21801	RES. 180Ω ±5% 1/4W	GG05181140
R208		9965 000 03405	CHIP 2.7kΩ ±5% 1/6W	NI05272110
R209		4822 111 90918	CHIP 4.7kΩ ±5% 1/6W	NI05472110
R210		4822 051 20332	CHIP 3.3kΩ ±5% 1/6W	NI05332110
R211	/K,/N,/S	4822 100 11352	TRIM.RES. 22kΩ RH0638CJ4R	RA02230780
R211	/U	4822 100 11351	TRIM.RES. 10kΩ RH0638C14R	RA01030780
R212		4822 100 11351	TRIM.RES. 10kΩ RH0638CS3R	RA01030780
R213		4822 051 20479	CHIP 47Ω ±5% 1/6W	NI05470110
R214		4822 117 10834	CHIP 47kΩ ±5% 1/6W	NI05473110
R215	/K,/N,/S	4822 111 90925	CHIP 68kΩ ±5% 1/6W	NI05683110
R215	/U	4822 051 20273	CHIP 27kΩ ±5% 1/10W	NI05273110
R216		4822 051 20102	CHIP 1kΩ ±5% 1/10W	NI05102110
⚠ R217		4822 050 21801	RES. 180Ω ±5% 1/4W	GG05181140
R220		4822 051 20101	CHIP 100Ω ±5% 1/10W	NI05101110
R301	/K,/N,/S	4822 051 20479	CHIP 47Ω ±5% 1/10W	NI05470110

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
R301	/U	4822 111 90892	CHIP 0Ω ±5% 1/10W	NI05000110
R302	/K,/N,/S	4822 051 20479	CHIP 47Ω ±5% 1/10W	NI05470110
R302	/U	4822 111 90892	CHIP 0Ω ±5% 1/10W	NI05000110
R303	/K,/N,/S	4822 117 10833	CHIP 10kΩ ±5% 1/10W	NI05103110
R304	/K,/N,/S	4822 117 10833	CHIP 10kΩ ±5% 1/10W	NI05103110
R307		4822 051 20153	CHIP 220Ω ±5% 1/10W	NI05221110
R308		4822 051 20153	CHIP 220Ω ±5% 1/10W	NI05221110
R309		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
R310		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
R315		9965 000 03405	CHIP 2.7kΩ ±5% 1/10W	NI05272110
R316		9965 000 03405	CHIP 2.7kΩ ±5% 1/10W	NI05272110
R317	/K,/N,/S	4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
R318	/K,/N,/S	4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
R319	/K,/N,/S	4822 116 83933	CHIP 15kΩ ±5% 1/10W	NI05153110
R320	/K,/N,/S	4822 116 83933	CHIP 15kΩ ±5% 1/10W	NI05153110
R321	/U		JUMPER	75060501P0
R322	/U		JUMPER	75060501P0
R323		4822 111 90918	CHIP 4.7kΩ ±5%	NI05472110
R352	/N, /S	4822 111 90896	CHIP 100kΩ ±5% 1/10W	NI05104110
R353	/N, /S	4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
R355	/N, /S	4822 117 10833	CHIP 10kΩ ±5% 1/10W	NI05103110
R357	/N, /S	4822 117 10833	CHIP 10kΩ ±5% 1/10W	NI05103110
R502		4822 117 11449	CHIP 2.2kΩ ±5% 1/10W	NI05222110
R504		4822 111 90918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
R505		4822 051 20102	CHIP 1kΩ ±5% 1/10W	NI05102110
R506		4822 051 20102	CHIP 1kΩ ±5% 1/10W	NI05102110
R507		4822 111 90925	CHIP 68kΩ ±5% 1/10W	NI05683110
R508		4822 117 10834	CHIP 47kΩ ±5% 1/10W	NI05473110
R509		4822 051 20223	CHIP 22kΩ ±5% 1/10W	NI05223110
R510		4822 111 90918	CHIP 4.7kΩ ±5% 1/10W	NI05472110
R511		4822 051 20822	CHIP 8.2kΩ ±5% 1/10W	NI05822110
R513		4822 117 10833	CHIP 10kΩ ±5% 1/10W	NI05103110
R515		4822 117 10833	CHIP 10kΩ ±5% 1/10W	NI05103110
			P104-SEMICONDUCTORS	
DA01		4822 125 50416	VARICAP DIODE SVC342-L	HD40009030
DA02	/N	9965 000 03402	CHIP DIODE 1SS356	HZ21302210
DA03	/N	4822 125 50416	VARICAP DIODE SVC342-L	HD40009030
DA04	/N	9965 000 03402	CHIP DIODE 1SS356	HZ21302210
DA05		9965 000 03400	CHIP DIODE MA716	HZ20030020
DC01		9965 000 03401	CHIP DIODE RB425D	HZ20030210
DM01				
≀		4822 130 33944	CHIP DIODE DAN202K	HZ20002210
DM04				
DM05				
≀		9965 000 06298	DIODE 1SS200	HE10202050
DM09				
DM10		9965 000 03401	CHIP DIODE RB425D	HZ20030210
DM11		9965 000 03401	CHIP DIODE RB425D	HZ20030210
DM12		9965 000 03401	CHIP DIODE RB425D	HZ20030210
D202		9965 000 03403	CHIP ZENER DIODE 02CZ9.1-X	HZ30031050
D502	/N	4822 130 80522	CHIP DIODE DAP202K	HZ20001210
D504		9965 000 03401	CHIP DIODE RB425D	HZ20030210
QA01	/N	4822 130 41947	TRS. 2SC2458 2SC1740S	HT30001000
			2SC3199 ETC	
QA02	/N	4822 130 41947	TRS. 2SC2458 2SC1740S	HT30001000
			2SC3199 ETC	
QA03	/N	4822 130 61892	TRS. 2SD2144S U OR V	HT421442A0
QA04	/N	4822 130 61227	DIG.TRS.	BA10001000
			DTA114ES UN4111 10k 10k	
QA05	/N	4822 130 61227	DIG.TRS.	BA10001000
			DTA114ES UN4111 10k 10k	
QA06	/N	4822 130 60588	DIG.TRS.	BA20001000
			DTC114ES UN4211 10k 10k	
QC01		4822 209 32554	IC LC78213	HC10310030
QC03		4822 209 73953	IC NJM4580DD	HC10112090
QC07		4822 130 42292	TRS. 2SC2120 O	HT321201A0

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
QC08		4822 130 61227	DIG.TRS.	BA10001000
			DTA114ES UN4111 10k 10k	
QG51		9965 000 01358	IC TC9459N ELE.VOLUME	HC10443050
QG52	14A	4822 209 31153	IC NJM2114D	HC10111090
			DUAL LOW NOISE OP-AMP	
QG53	14A	4822 209 31153	IC NJM2114D	HC10111090
			DUAL LOW NOISE OP-AMP	
QG52	18A	482220973064	IC NJM-2068-DD OP AMP	HC10053090
QG53	18A	482220973064	IC NJM-2068-DD OP AMP	HC10053090
QM01				
≀		4822 130 11511	CHIP TR. 2SC3326 A OR B	HX333262A0
QM08				
QM09				
≀		4822 130 61227	DIG.TRS.	BA10001000
QM13			DTA114ES UN4111 10k 10k	
QM15		4822 130 63634	TRS. 2SA1837 O OR Y	HT118372A0
QM16			DIG.TRS. RN2402 CHIP	BA1000605R
QM17		4822 209 90532	IC NJU3713D	HC10161090
QV01		9965 000 01358	IC TC9459N ELE.VOLUME	HC10443050
QV02		9965 000 01358	IC TC9459N ELE.VOLUME	HC10443050
QV03		9965 000 01358	IC TC9459N ELE.VOLUME	HC10443050
QV05		4822 209 31153	IC NJM2114D	HC10111090
			DUAL LOW NOISE OP-AMP	
QV06	14A	4822 209 31153	IC NJM2114D	HC10111090
			DUAL LOW NOISE OP-AMP	
QV07	14A	4822 209 31153	IC NJM2114D	HC10111090
			DUAL LOW NOISE OP-AMP	
QV09	14A	4822 209 31153	IC NJM2114D	HC10111090
			DUAL LOW NOISE OP-AMP	
QV10	14A	4822 209 31153	IC NJM2114D	HC10111090
			DUAL LOW NOISE OP-AMP	
QV11	14A	4822 209 31153	IC NJM2114D	HC10111090
			DUAL LOW NOISE OP-AMP	
QV06	18A	482220973064	IC NJM-2068-DD OP AMP	HC10053090
QV07	18A	482220973064	IC NJM-2068-DD OP AMP	HC10053090
QV09	18A	482220973064	IC NJM-2068-DD OP AMP	HC10053090
QV10	18A	482220973064	IC NJM-2068-DD OP AMP	HC10053090
QV11	18A	482220973064	IC NJM-2068-DD OP AMP	HC10053090
QV13		4822 130 42949	TRS. 2SA970 GR OR BL	HT109702A0
QV14		4822 130 42949	TRS. 2SA970 GR OR BL	HT109702A0
QV15				
≀		4822 130 43233	TRS. 2SC2240 GR OR BL	HT322402A0
QV18				
QV19		4822 130 42949	TRS. 2SA970 GR OR BL	HT109702A0
QV20		4822 130 42949	TRS. 2SA970 GR OR BL	HT109702A0
Q201		9965 000 01369	IC LA1837 FM/AM IF MPX IC	HC10384030
Q202		4822 130 62294	TRS. 2SC1809S	HT318091P0
			P 150MW 500MHz	
Q203				
≀		4822 130 42594	DIG.TRS.	BA20002000
Q205			DTC144ES UN4213 47K 47K	BA
Q301	/K	4822 209 73064	IC NJM-2068-DD	HC10053090
Q301	/N	4822 209 73064	IC NJM-2068-DD	HC10053090
Q301	/S	4822 209 73064	IC NJM-2068-DD	HC10053090
Q351	/N	9965 000 06293	IC LC72722 RDS DECODER	HC10404030
Q351	/S	9965 000 06293	IC LC72723 RDS DECODER	HC10404030
Q352	/N, /S	4822 130 61227	DIG.TRS.	BA10001000
			DTA114ES UN4111 10k 10k	
Q353	/N, /S	4822 130 60588	DIG.TRS.	BA20001000
			DTC114ES UN4211 10k 10k	
Q354	/N, /S	4822 130 41947	TRS. 2SC2458.2SC1740S.	HT30001000
			2SC3199.ETC	
Q501		9965 000 01370	IC LC72130	HC10394030
			P104-MISCELLANEOUS	
A101		9965 000 01368	VHF TUNER TFFJ4E	AV00900010
FA01			CERAMIC FILTER SFZ450JL3	FF10045410
			CERAFIL 451K	

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
F201	/K,/N,/S	4822 242 70665	CERAMIC FILTER SFE10.7MS3-A	FF11070620
F201	/U	4822 242 70911	CERAMIC FILTER SFF10.7MA8-A	FF11070610
F202		4822 242 70665	CERAMIC FILTER SFE10.7MS3-A	FF11070620
JM01		4822 265 10731	TERMINAL YKC21-3778	YT02041170
JM02		9965 000 06307	TERMINAL YKC21-3777	YT02060550
JM03		4822 265 10731	TERMINAL YKC21-3778	YT02041170
JM05		4822 267 10603	TERMINAL YKC21-3707	YT02011030
J101		4822 290 81632	TERMINAL YKD31-0215A FM/AM ANT PAL	YT03030020
LA01		4822 157 63084	ANT COIL MW ANT 280µH	LA10295170
LA02		4822 157 70779	OSC. COIL MW	LO70013010
LA03	/N	4822 157 52714	ANT COIL LW ANT	LA10295160
LA04	/N	4822 157 70781	OSC. COIL LW	LO70013020
LA05		4822 157 53589	CHOKE COIL TL-8 393J	LC23960710
LA06		4822 148 81095	I.F.T. COIL AM IFT K7-H5 FOR SFP450D	LI70033510
LC01		9965 000 01570	RELAY ED2-24	LY20240470
LM01 ∫ LM04		9965 000 01576	RELAY MR82-24USR	LY20240480
L201		4822 157 63904	I.F.T. COIL FM DET M292BEAS-5968Z	LI70376010
L301		4822 157 71731	M.P.X. COIL LPF-V10-A1 19/38kHz	LS10293020
L302		4822 157 71731	M.P.X. COIL LPF-V10-A1 19/38kHz	LS10293020
L350	/N, /S	4822 242 73843	EMI FILTER DSS306-91-F-223	FM12223010
L351	/N, /S	4822 242 73843	EMI FILTER DSS306-91-F-233Z	FM12223010
L352 ∫ L356	/N, /S	4822 111 90892	CHIP 0Ω ±5% 1/10W	NI05000110
L359	/N, /S	4822 111 90892	CHIP 0Ω ±5% 1/10W	NI05000110
L501 ∫ L504		4822 111 90892	CHIP 0Ω ±5% 1/10W	NI05000110
X351	/N, /S	4822 242 10857	CRYSTAL 4.332MHz AT-49	JX04003260
X501		4822 242 72333	CRYSTAL AD0618CTB 7.2MHz	JX07001260
			P604-AC-2 DTS&THX EX DECODE CIRCUIT BOARD P604-CAPACITORS	
CD01		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CD02		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CD03		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CD05		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CD06		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CD07		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CD09		4822 124 21894	ELECT. 10µ! 16V	EJ10601610
CD10		4822 124 21894	ELECT. 10µ! 16V	EJ10601610
CD11		4822 124 21894	ELECT. 10µ! 16V	EJ10601610
CD13		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CD14		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CD15		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CD17		4822 124 21894	ELECT. 10µ! 16V	EJ10601610
CD18		4822 124 21894	ELECT. 10µ! 16V	EJ10601610
CD19		4822 124 21894	ELECT. 10µ! 16V	EJ10601610
CD21		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CD22		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CD23		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CD25		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CD26		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CD27		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CD29		5322 126 11578	CER.CHIP 1000pF B 50V	DK96102300
CD30		5322 126 11578	CER.CHIP 1000pF B 50V	DK96102300
CD31		5322 126 11578	CER.CHIP 1000pF B 50V	DK96102300
CD41	14A	4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CD42		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CD43	14A	4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CD44		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CD45	14A	4822 124 21894	ELECT. 10µ! 16V	EJ10601610
CD46		4822 124 21894	ELECT. 10µ! 16V	EJ10601610
CD47	14A	4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CD48		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CD49	14A	4822 124 21894	ELECT. 10µ! 16V	EJ10601610
CD50		4822 124 21894	ELECT. 10µ! 16V	EJ10601610
CD51	14A	4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CD52		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CD53	14A	4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CD54		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CD55	14A	5322 126 11578	CER.CHIP 1000pF B 50V	DK96102300
CD56		5322 126 11578	CER.CHIP 1000pF B 50V	DK96102300
CD61	14A	4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CD63 ∫ CD69	14A	4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CD71	14A	4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CD73	14A	4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CD81 ∫ CD92		4822 126 11703	CER.CHIP 0.01µF +80%-20%	DK98103300
CD93		9965 000 01318	ELECT. 220µF M 10V RA-2	OA22701020
CD94		9965 000 01318	ELECT. 220µF M 10V RA-2	OA22701020
CD95		9965 000 01318	ELECT. 220µF M 10V RA-2	OA22701020
CD96		9965 000 01318	ELECT. 220µF M 10V RA-2	OA22701020
CD97		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CD98		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CE01	14A	5322 122 32654	CER.CHIP 0.022µF ±10% XTR	DK96223200
CE01	18A	482211682487	CHIP RES. 0ohM ±5% 1/16W	NN05000610
CE02	14A	4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CE03	14A	4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CE04	14A	4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CE05	14A	4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CE06	14A	5322 126 11578	CER.CHIP 1000pF ±10% B 50V	DK96102300
CE11	14A	4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CE13	14A	4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CE14	14A	4822 122 33753	CER.CHIP 150pF ±5% CG 50V	DD95151300
CE15	14A	4822 122 33753	CER.CHIP 150pF ±5% CG 50V	DD95151300
CE16	14A	4822 126 12502	CER.CHIP 820pF ± 10%	DK96821300
CE18	14A	4822 126 13837	CER.CHIP 0.1µF ±10% B 10V	DK96104200
CE19	14A	4822 126 14417	CER.CHIP 0.01µF ±10% 50V	DK96103300
CE33	14A	4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CE34	14A	4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CE35	14A	4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CE36	14A	4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CE37	14A	4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CE39	14A	4822 124 12389	ELECT. 47µ! 16V BP	EQ47601630
CE42	14A	4822 126 14417	CER.CHIP 0.01µF ±10% 50V	DK96103300
CE43	14A	4822 126 14417	CER.CHIP 0.01µF ±10% 50V	DK96103300
CE44	14A	4822 122 33752	CER.CHIP 18pF 50V ±5%	DD95150300
CE45	14A	4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CE46	14A	4822 126 13689	CER.CHIP 18pF	DD95180300
CE51	14A	4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CE52	14A	5322 126 11578	CER.CHIP 1000pF B 50V	DK96102300
CE53	14A	4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CE54	14A	4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CE56 ∫ CE60	14A	4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CE61	14A	4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CE62	14A	4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CE63	14A	4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CE65	14A	4822 126 11703	CER.CHIP 0.01µF	DK98103300
CE66	14A	4822 126 11703	CER.CHIP 0.01µF	DK98103300

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CH05 ～ CH08		4822 121 10792	FILM 220pF 100V PP APSV	OF15221540
CH12	18A	482211682487	CHIP RES. 0Ω +- 5% 1/16W	NN05000610
CH14	14A	4822 124 81151	ELECT. 22μF M 25V ARA	OA22602550
CH14	/F		ELECT. 22μF M 25V ARS	OA22602540
CH14	18A	996500001581	ELECT. 22μF M 25V RA-2	OA22602520
CH15 ～ CH18		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CH24	18A	482211682487	CHIP RES. 0Ω +- 5% 1/16W	NN05000610
CH26	14A	4822 124 81151	ELECT. 22μF M 25V ARA	OA22602550
CH26	/F		ELECT. 22μF M 25V ARS	OA22602540
CH26	18A	996500001581	ELECT. 22μF M 25V RA-2	OA22602520
CH27		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CH28		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CH31		4822 124 41535	ELECT. 100μF M 25V RA-2	OA10702520
CH32		4822 124 41535	ELECT. 100μF M 25V RA-2	OA10702520
CH33		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CH34		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CH39		4822 122 33761	CER.CHIP 22pF ±5% CG50V	DD95220300
CH40		4822 122 33761	CER.CHIP 22pF ±5% CG50V	DD95220300
CH41		4822 124 90352	ELECT. 10μF M 16V RA-2	OA10601620
CH42		4822 124 90352	ELECT. 10μF M 16V RA-2	OA10601620
CH55 ～ CH58		4822 121 10792	FILM 220pF 100V PP APSV	OF15221540
CH61		4822 122 33761	CER.CHIP 22pF ±5% CG50V	DD95220300
CH62		4822 122 33761	CER.CHIP 22pF ±5% CG50V	DD95220300
CH63	14A	4822 124 81151	ELECT. 22μF 25V ARA	OA22602550
CH63	/F		ELECT. 22μF M 25V ARS	OA22602540
CH63	18A	996500001581	ELECT. 22μF M 25V RA-2	OA22602520
CH64	14A	4822 124 81151	ELECT. 22μF M 25V ARA	OA22602550
CH64	17, 18A	996500001581	ELECT. 22μF M 25V RA-2	OA22602520
CH65 ～ CH68		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CH70		4822 124 90352	ELECT. 10μF M 16V RA-2	OA10601620
CH73		4822 122 33761	CER.CHIP 22pF ±5% CG50V	DD95220300
CH74		4822 122 33761	CER.CHIP 22pF ±5% CG50V	DD95220300
CH75	14A	4822 124 81151	ELECT. 22μF 25V ARA	OA22602550
CH75	/F		ELECT. 22μF M 25V ARS	OA22602540
CH75	18A	996500001581	ELECT. 22μF M 25V RA-2	OA22602520
CH76	14A	4822 124 81151	ELECT. 22μF 25V ARA	OA22602550
CH76	/F		ELECT. 22μF M 25V ARS	OA22602540
CH76	18A	996500001581	ELECT. 22μF M 25V RA-2	OA22602520
CH77		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CH78		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CH80		4822 124 90352	ELECT. 10μF M 16V RA-2	OA10601620
CH81		4822 124 41535	ELECT. 100μF M 25V RA-2	OA10702520
CH82		4822 124 41535	ELECT. 100μF M 25V RA-2	OA10702520
CH83		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CH84		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CJ05 ～ CJ08		4822 121 10792	FILM 220pF 100V PP APSV	OF15221540
CJ11	14A	4822 124 81151	ELECT. 22μF M 25V ARA	OA22602550
CJ11	/F		ELECT. 22μF M 25V ARS	OA22602540
CJ11	18A	996500001581	ELECT. 22μF M 25V RA-2	OA22602520
CJ12	14A	4822 124 81151	ELECT. 22μF M 25V ARA	OA22602550
CJ12	/F		ELECT. 22μF M 25V ARS	OA22602540
CJ12	18A	996500001581	ELECT. 22μF M 25V RA-2	OA22602520
CJ13 ～ CJ16		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CJ19		4822 122 33761	CER.CHIP 22pF ±5% CG50V	DD95220300
CJ20		4822 122 33761	CER.CHIP 22pF ±5% CG50V	DD95220300
CJ21		4822 124 41535	ELECT. 100μF M 25V RA-2	OA10702520
CJ22		4822 124 41535	ELECT. 100μF M 25V RA-2	OA10702520

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CJ23		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CJ24		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CJ25		4822 124 90352	ELECT. 10μF M 16V RA-2	OA10601620
CJ26		4822 124 90352	ELECT. 10μF M 16V RA-2	OA10601620
CJ55 ～ CJ58	14A	4822 121 10792	FILM 220pF 100V PP APSV	OF15221540
CJ59	14A	4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CJ60	14A	4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CJ75 ～ CJ78		4822 121 10792	FILM 220pF 100V PP APSV	OF15221540
CJ79		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CJ80		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CK01 ～ CK04		4822 124 90352	ELECT. 10μF M 16V RA-2	OA10601620
CK05 ～ CK08		9965 000 06286	CER.CHIP 470pF ± 5% J SL	DD95471370
CK11 ～ CK20		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CK21		4822 124 90352	ELECT. 10μF M 16V RA-2	OA10601620
CK22		4822 124 90352	ELECT. 10μF M 16V RA-2	OA10601620
CK23		9965 000 06287	CER.CHIP 0.22μF +80%-20%	DK98224200
CK24		9965 000 06287	CER.CHIP 0.22μF +80%-20%	DK98224200
CK25		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
CK26		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
CK27		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CK28		4822 122 31765	CER.CHIP 100pF ±5% CG 50V	DD95101300
CK30		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CK31		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CK33		4822 124 41535	ELECT. 100μF M 25V RA-2	OA10702520
CK34		4822 124 41535	ELECT. 100μF M 25V RA-2	OA10702520
CK35		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CK36		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CK37 ～ CK40		5322 126 11583	CER.CHIP 0.01μF ±10% B 25V	DK96103200
CK41		4822 124 21894	ELECT. 10μ! 16V	EJ10601610
CK42		4822 124 21894	ELECT. 10μ! 16V	EJ10601610
CK43		4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620
CK44		4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620
CK45		4822 122 33761	CER.CHIP 22pF ±5% CG50V	DD95220300
CK46		4822 122 33761	CER.CHIP 22pF ±5% CG50V	DD95220300
CR01		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CR02		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
CR03		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CR04		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
CR05		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CR06		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
CR07		4822 126 13837	CER.CHIP 0.1μF ±10% B 10V	DK96104200
CR08		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CR10		4822 126 11568	CER.CHIP 470pF	DK96471300
CR11		4822 126 13837	CER.CHIP 0.1μF ±10% B 10V	DK96104200
CR12		4822 126 13837	CER.CHIP 0.1μF ±10% B 10V	DK96104200
CR13		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CR14		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CR15		4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620
CR16		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CR17		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CR18		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CR19		5322 126 11583	CER.CHIP 0.01μF ±10% B 25V	DK96103200
CR20		5322 126 11583	CER.CHIP 0.01μF ±10% B 25V	DK96103200
CR21		4822 126 13837	CER.CHIP 0.1μF ±10% B 10V	DK96104200
CR22		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200
CR23		4822 126 11687	CER.CHIP 0.1μF +80%-20%	DK98104200

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CR24	14A	4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CR25		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CR26		4822 126 11703	CER.CHIP 0.01µF	DK98103300
CR27		4822 126 11703	CER.CHIP 0.01µF	DK98103300
CR28		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CR29		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CR30		5322 126 11578	CER.CHIP 1000pF ±10% B 50V	DK96102300
CR31		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CR32		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CR33		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CR34	14A	5322 126 11583	CER.CHIP 0.01µF ±10% B 25V	DK96103200
CR34	18A	482212613837	CER.CHIP 0.1µF ±10% B 10V	DK96104200
CR35		5322 126 11583	CER.CHIP 0.01µF ±10% B 25V	DK96103200
C601		4822 126 11703	CER.CHIP 0.01µF	DK98103300
C602		4822 126 11703	CER.CHIP 0.01µF	DK98103300
C603		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C604		4822 126 11703	CER.CHIP 0.01µF	DK98103300
C605		4822 126 11703	CER.CHIP 0.01µF	DK98103300
C606		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C607		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C608		4822 122 33761	CER.CHIP 22pF ±5% CG 50V	DD95220300
C609		4822 122 33761	CER.CHIP 22pF ±5% CG 50V	DD95220300
C610		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C611		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C612		4822 126 11568	CER.CHIP 470pF	DK96471300
C613		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C614		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C615		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C616		5322 126 11583	CER.CHIP 0.01µF ±10% B 25V	DK96103200
C617		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C618		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C620		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C621		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C622		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C623		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C624		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C625		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C651		4822 126 11703	CER.CHIP 0.01µF	DK98103300
C652		4822 126 11703	CER.CHIP 0.01µF	DK98103300
C653		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C654		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C655		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C656		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C657		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C658 ∫ C662		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C663		4822 126 13396	CER.CHIP 0.047µF ±10% X7R	DK96473200
C664		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C665		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C666		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C667		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C668		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C669		4822 126 14417	CER.CHIP 0.01µF B 50V	DK96103300
C670		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C680		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C690		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C691		4822 126 14417	CER.CHIP 0.01µF B 50V	DK96103300
C692		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C693		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C694		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
C695		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
C696		5322 126 11583	CER.CHIP 0.01µF ±10% B 25V	DK96103200
C697		5322 126 11583	CER.CHIP 0.01µF ±10% B 25V	DK96103200

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			P604-CAPACITORS (COMMON)	
C***			PLASTIC FILM CAPACITOR ±5% 50V : CE31 CE32 CE41 CH01-CH04 CH13 CH25 CH51 CH52-CH54 CH59 CH60 CH71 CH72 CJ02-CJ04 CJ09 CJ10 CJ51- CJ54 CJ71-CJ74 CK09 CK10	
			P604-RESISTORS	
RD01	14A	4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RD05	14A	4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RD07	14A	4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RD81	18A	482211682487	CHIP 0Ω ±5% 1/16W	NN05000610
RD82	18A	482211682487	CHIP 0Ω ±5% 1/16W	NN05000610
RD83	18A	482211682487	CHIP 0Ω ±5% 1/16W	NN05000610
RD61	14A	4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RD63	14A	4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RD65	14A	4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RE01	14A	4822 051 30561	CHIP 560Ω ±5% 1/16W	NN05561610
RE02	14A	4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
RE03	14A	4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RE04	14A	4822 116 83211	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RE05	14A	4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RE06	14A	4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RE07	14A	4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RE08	14A	4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RE10	14A	4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RE11	14A	4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RE12	14A	4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RE13	14A	4822 051 30151	CHIP 150Ω ±5% 1/16W	NN05151610
RE14	14A	4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RE15 ∫ RE18	14A	4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RE19	14A	4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RE20	14A	4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RE21	14A	4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RE22	14A	4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RE23	14A	4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RE24	14A	4822 051 30332	CHIP 3.3kΩ ±5% 1/16W	NN05332610
RE25	14A	4822 117 12902	CHIP 8.2kΩ ±5% 1/16W	NN05822610
RE31	14A	4822 051 30392	CHIP 3.9kΩ ±5% 1/16W	NN05392610
RE32	14A	4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RE33	14A	4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RE34	14A	4822 051 30223	CHIP 22kΩ ±5% 1/16W	NN05223610
RE35	14A	4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RE41	14A	4822 051 30223	CHIP 22kΩ ±5% 1/16W	NN05223610
RE42	14A	4822 051 30683	CHIP 68kΩ ±5% 1/16W	NN05683610
RE43	14A	4822 051 30121	CHIP 120Ω ±5% 1/16W	NN05121610
RE44	14A	4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RE45	14A	4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RE46	14A	4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RE47	14A	4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RE48	14A	4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RE49	14A	4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RE50	14A	4822 117 12139	CHIP 22Ω ±5% 1/16W	NN05220610
RE61	14A	4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RE62	14A	4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RE63	14A	4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RE64	14A	4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RE67	14A	4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RE69 ∫ RE72	18A	482211682487	CHIP 0Ω ±5% 1/16W	NN05000610
RH01 ∫ RH12		4822 116 83211	CHIP 1.8kΩ ±5% 1/16W	NN05182610

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RH13		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH14		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH15	14A	4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH16	14A	4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH17		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH18	14A	4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH19		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH21		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RH22		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH24		4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
RH21	18A	482211683215	CHIP 5.6kΩ ±5% 1/16W	NN05562610
RH22	18A	482205130472	CHIP 4.7kΩ ±5% 1/16W	NN05222610
RH23	18A	482205130223	CHIP 22kΩ ±5% 1/16W	NN05101610
RH25		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RH26		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH27 ∫ RH31	14A	4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH32		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH34		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RH35		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH34	18A	482211683215	CHIP 5.6kΩ ±5% 1/16W	NN05562610
RH35	18A	482205130472	CHIP 4.7kΩ ±5% 1/16W	NN05222610
RH36	18A	482205130223	CHIP 22kΩ ±5% 1/16W	NN05101610
RH37		4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
RH38		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RH51 ∫ RH62		4822 116 83211	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RH63 ∫ RH66		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH67		4822 051 30223	CHIP 22kΩ ±5% 1/16W	NN05223610
RH68		4822 051 30392	CHIP 3.9kΩ ±5% 1/16W	NN05392610
RH69		4822 051 30562	CHIP 5.6kΩ ±5% 1/16W	NN05562610
RH70		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RH71		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RH72		4822 051 30153	CHIP 15kΩ ±5% 1/16W	NN05153610
RH73		4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
RH74		4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
RH75		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RH76		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RH77 ∫ RH80		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RH81		4822 051 30223	CHIP 22kΩ ±5% 1/16W	NN05223610
RH82		4822 051 30223	CHIP 22kΩ ±5% 1/16W	NN05223610
RH83		4822 051 30562	CHIP 5.6kΩ ±5% 1/16W	NN05562610
RH84		4822 051 30562	CHIP 5.6kΩ ±5% 1/16W	NN05562610
RH85		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RH86		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RH87		4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
RH88		4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
RH89		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RH90		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RJ01 ∫ RJ12		4822 116 83211	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RJ13 ∫ RJ16		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RJ17		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RJ18		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RJ19		4822 051 30562	CHIP 5.6kΩ ±5% 1/16W	NN05562610
RJ20		4822 051 30562	CHIP 5.6kΩ ±5% 1/16W	NN05562610
RJ21		4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
RJ22		4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
RJ23		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RJ24		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RJ25		4822 051 30223	CHIP 22kΩ ±5% 1/6W	NN05223610
RJ26		4822 051 30223	CHIP 22kΩ ±5% 1/16W	NN05223610
RJ51 ∫ RJ62	14A	4822 116 83211	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RJ71 ∫ RJ82		4822 116 83211	CHIP 1.8kΩ ±5% 1/16W	NN05182610
RJ91	18A	4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RK01		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RK02		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RK03		4822 117 12902	CHIP 8.2kΩ ±5% 1/16W	NN05822610
RK04		4822 117 12902	CHIP 8.2kΩ ±5% 1/16W	NN05822610
RK05		9965 000 03187	CHIP 56Ω ±5% 1/16W	NN05560610
RK06		9965 000 03187	CHIP 56Ω ±5% 1/16W	NN05560610
RK07 ∫ RK18		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RK19 ∫ RK22		9965 000 05009	CHIP 39Ω ±5% 1/16W	NN05390610
RK23 ∫ RK28		4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
RK29		4822 051 30302	CHIP 3kΩ ±5% 1/16W	NN05302610
RK30		4822 051 30302	CHIP 3kΩ ±5% 1/16W	NN05302610
RK31		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RK32		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
RK33		4822 051 30474	CHIP 470kΩ ±5% 1/16W	NN05474610
RK34		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RK35 ∫ RK37		4822 526 10584	FERRITE CORE ZBF503D-00TA	FC90090010
RK38		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RR01		4822 051 30759	CHIP 75Ω ±5% 1/16W	NN05750610
RR02		4822 051 30759	CHIP 75Ω ±5% 1/16W	NN05750610
RR03		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RR04		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RR05		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RR06		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RR07		4822 051 30339	CHIP 33Ω ±5% 1/16W	NN05330610
RR08		4822 051 30339	CHIP 33Ω ±5% 1/16W	NN05330610
RR09		4822 051 30759	CHIP 75Ω ±5% 1/16W	NN05750610
RR10		4822 117 12902	CHIP 8.2kΩ ±5% 1/16W	NN05822610
RR11		9965 000 06300	CHIP 5.1kΩ ±5% 1/16W	NN0551261R
RR12		4822 051 30302	CHIP 3kΩ ±5% 1/16W	NN05302610
RR13		4822 051 30759	CHIP 75Ω ±5% 1/16W	NN05750610
RR14 ∫ RR19		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RR21		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RR22		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RR23		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RR24		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RR25		4822 051 30682	CHIP 6.8kΩ ±5% 1/16W	NN05682610
RR26 ∫ RR29		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RR30		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RR31		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
RR32		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RR33		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
R601		4822 051 30105	CHIP 1MΩ ±5% 1/16W	NN05105610
R602		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
R606		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
R651		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
R652		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
R654		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
R660		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
R661		4822 117 13632	CHIP 100kΩ ±5% 1/16W	NN05104610
R662		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
R664		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
R675		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
R676		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
R677				
∫		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
R688				
R689		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
R690		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
R693		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
R699		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
			P604-SEMICONDUCTORS	
DE01	14A	4822 130 10683	CHIP DIODE KV1851-TL00	HZ40003420
DK01				
∫		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
DK04				
DR01		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
DR02		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
D692		4822 130 80522	CHIP DIODE 1SS300 DAP202U	HZ21006000
D693		4822 130 83715	CHIP DIODE 1SS301 DAN202U	HZ21005000
QD01		9965 000 06290	IC AD1852 DAC 24BIT 96kHz	HC10014840
QD02		9965 000 06290	IC AD1852 DAC 24BIT 96kHz	HC10014840
QD03		9965 000 06290	IC AD1852 DAC 24BIT 96kHz	HC10014840
QD41	14A	9965 000 06290	IC AD1852 DAC 24BIT 96kHz	HC10014840
QD42		9965 000 06290	IC AD1852 DAC 24BIT 96kHz	HC10014840
QD43	14A	4822 209 17526	IC TC160G11AU-1305	HC10438050
QE01				
∫	14A	4822 130 60669	CHIP TR.	HX300012A0
QE03			2SC4081 Q R 2SC4116 Y GR	
QE04	14A	4822 209 14876	IC MC14577C SOP	HC10065170
QE05	14A	4822 130 60669	CHIP TR.	HX300012A0
			2SC4081 Q R 2SC4116 Y GR	
QE06	14A	4822 130 10698	CHIP TR.	HX100012A0
			SA1586 Y GR 2SA1576A Q R	
QE07	14A	4822 130 10698	CHIP TR.	HX100012A0
			2SA1586 Y GR 2SA1576A Q R	
QE08	14A	4822 209 83357	IC NJM4560M	HC10029090
QE09	14A	4822 209 17162	IC PM4007A	HC10016660
			AC-3 RF DEMODURATOR	
QE10	14A	4822 209 14864	IC 8X32K SRAM <35NS SOJ	HC10076000
QH01	14A	4822 209 91175	IC NJM2114M OP AMP	HC10175090
QH02	14A	4822 209 91175	IC NJM2114M OP AMP	HC10175090
QH03	14A	4822 209 91175	IC NJM2114M OP AMP	HC10175090
QH01	18A	482220973064	IC NJM-2068-DD OP AMP	HC10053090
QH02	18A	482220973064	IC NJM-2068-DD OP AMP	HC10053090
QH03	18A	482220973064	IC NJM-2068-DD OP AMP	HC10053090
QH51	14A	4822 209 91175	IC NJM2114M OP AMP	HC10175090
QH52	14A	4822 209 91175	IC NJM2114M OP AMP	HC10175090
QH53	14A	4822 209 91175	IC NJM2114M OP AMP	HC10175090
QH51	18A	482220973064	IC NJM-2068-DD OP AMP	HC10053090
QH52	18A	482220973064	IC NJM-2068-DD OP AMP	HC10053090
QH53	18A	482220973064	IC NJM-2068-DD OP AMP	HC10053090
QJ01	14A	4822 209 91175	IC NJM2114M OP AMP	HC10175090
QJ02	14A	4822 209 91175	IC NJM2114M OP AMP	HC10175090
QJ01	18A	482220973064	IC NJM-2068-DD OP AMP	HC10053090
QJ02	18A	482220973064	IC NJM-2068-DD OP AMP	HC10053090
QJ51		4822 209 91175	IC NJM2114M OP AMP	HC10175090
QJ71	14A	4822 209 91175	IC NJM2114M OP AMP	HC10175090
QJ71	18A	482220973064	IC NJM-2068-DD OP AMP	HC10053090
QK01		9965 000 06291	IC AK5392 2CH.ADC 24BIT	HC10028480

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
QK03				
∫	14A	4822 209 91175	IC NJM2114M OP AMP	HC10175090
QK06				
QK03				
∫	18A	482220973064	IC NJM-2068-DD OP AMP	HC10053090
QK06				
QK07		4822 130 63601	CHIP TR. 2SC4213	HX342132A0
QK08		4822 130 63601	CHIP TR. 2SC4213	HX342132A0
QK10		4822 130 61903	DIG.TRS. DTA114EU	BA10026210
QR01		9965 000 06294	IC LC89055Q	HC10405030
			SPDIF RECEIVER	
QR02		9965 000 01342	IC TC74HC151AF	HC715100Z0
QR03		9965 000 01342	IC TC74HC151AF	HC715100Z0
QR04		4822 209 30426	IC CMOS 74HC00	HC700000Z0
QR05		4822 209 30426	IC CMOS 74HC00	HC700000Z0
QR06		4822 209 13267	IC TC74HCT7007AF	HC800705Q0
QR07		4822 209 31568	IC 74HCU04 CMOS	HC700400Z0
QR09		4822 130 60856	DIG.TRS. DTC144EC	BA20021210
QR10		4822 130 60856	DIG.TRS. DTC144EC	BA20021210
Q601		9965 000 01321	IC YSS912	HC10014640
			DTS/AC-3 DECODER	
Q602		9965 000 01322	IC TC7WT241FU	HC007405K0
Q603		4822 209 15598	IC 74HCT157 PACK	HC715705Q0
Q604		9965 000 01324	IC 1M SRAM 8X128K 15NS	HC10088000
Q605		9965 000 01326	IC TCW32FU OR *2	HC10419050
Q651		9965 000 06292	IC ZR38601	HC10102990
			THX5.1 EX DECODE	
Q652		9965 000 01338	IC TC7SET04F	HC007205K0
Q653		9965 000 01322	IC TC7WT241FU	HC007405K0
Q691		9965 000 06296	MICROPROCESSOR	HU326JT10F
			TMP93CW44ADF SURR CPU	
Q692		9965 000 01323	IC TC7WT126FU	HC007305K0
Q693		4822 209 32921	IC S-80745AN	HC10048530
Q694		4822 209 33521	IC TC7W04FU	HC10382050
			P604-MISCELLANEOUS	
JE01		4822 267 10603	TERMINAL YKC21-3707	YT02011030
JR01		9965 000 01340	TERMINAL RCA 2P AU BL	YT02021540
JR02		4822 218 11487	OPTICAL RECIVER GP1F32R	YJ15000150
JR03		4822 218 11487	OPTICAL RECIVER GP1F32R	YJ15000150
JR04		4822 267 31369	OPTICAL OUTPUT GP1F32T	YJ15000090
JR05		4822 290 81638	TERMINAL 14X14 RCA 1L1P	YT02010790
JR06			TERMINAL GND TERMINAL M3	YL01010140
JR07		4822 218 11487	OPTICAL RECIVER	YJ15000150
LD01				
∫		4822 526 10584	FERRITE	FC90090010
LD03			ZBF503D-00TA	
LD05				
∫		4822 526 10584	FERRITE	FC90090010
LD07			ZBF503D-00TA	
LD41	14A	4822 526 10584	FERRITE CORE	FC90090010
			ZBF503D-00TA	
LD42		4822 526 10584	FERRITE CORE	FC90090010
			ZBF503D-00TA	
LD45	14A	4822 526 10584	FERRITE CORE	FC90090010
			ZBF503D-00TA	
LD46		4822 526 10584	FERRITE CORE	FC90090010
			ZBF503D-00TA	
LD81				
∫		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
LD86				
LE01	14A	4822 157 70681	CHIP INDUCTANCE	LU12683010
			68µH NL322522-680K	
LE02	14A		LC. FILTERR 2.88MHz B.P.F	FF32884010
LE03	14A	4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
LE04	14A	4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
LH01		4822 526 10584	FERRITE CORE	FC90090010
			ZBF503D-00TA	

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
LH02		4822 526 10584	FERRITE CORE	FC90090010
			ZBF503D-00TA	
LH51		4822 526 10584	FERRITE CORE	FC90090010
			ZBF503D-00TA	
LH52		4822 526 10584	FERRITE CORE	FC90090010
			ZBF503D-00TA	
LJ01		4822 526 10584	FERRITE CORE	FC90090010
			ZBF503D-00TA	
LJ02		4822 526 10584	FERRITE CORE	FC90090010
			ZBF503D-00TA	
LK01		4822 526 10584	FERRITE CORE	FC90090010
			ZBF503D-00TA	
LR01		4822 142 60422	PULSE TRANSF.	TP41042030
			TPS247MN-0386AN	
LR02		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
L601		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
L602		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
L651		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
L691				
≀		4822 157 10884	EMI FILTER BLM11A221S	FN31000010
L697				
XE01		9965 000 01320	CRYSTAL 18.432MHz AT-49	JX18001260
X601		4822 242 10851	CRYSTAL 12.288MHz AT-49	JX12013260
X691		9965 000 01346	SERAMIC VIB. CST20 00MXW	FQ02005030
			P704-3CH POWER-AMP.	
			CIRCUIT BOARD	
			P704-CAPACITORS	
CT01	14A	4822 124 90058	ELECT. 47μF M 25V ARA	OA47602550
CT01	18A	482212422275	ELECT. 47μF M 10V RA-2	OA47601020
CT03		9965 000 05891	FILM 470pF J 100V APSV	OF15471540
CT05		9965 000 05891	FILM 470pF 100V PP APSV	OF15471540
CT07		9965 000 01040	ELECT. 470μF M 6.3V RA-2	OA47700620
CT11		9965 000 02644	ELECT. 220μF M 100V RA2	OA22710020
CT13		9965 000 02644	ELECT. 220μF M 100V RA2	OA22710020
CT15		4822 124 11533	ELECT. 1μF M 100V RA2	OA10510020
CT17		9965 000 01561	MICA 10pF 250V FE	DF31100520
CT19		9965 000 05892	ELECT. 4.7μF M 100V	EA47510010
CT27		9965 000 00438	FILM 120pF J 100V APSV	OF15121540
CT29		9965 000 00438	FILM 120pF J 100V APSV	OF15121540
C701	14A	4822 124 90058	ELECT. 47μF M 25V ARA	OA47602550
C702	14A	4822 124 90058	ELECT. 47μF M 25V ARA	OA47602550
C701	18A	482212422275	ELECT. 47μF M 10V RA-2	OA47601020
C702	18A	482212422275	ELECT. 47μF M 10V RA-2	OA47601020
C703				
≀		9965 000 05891	FILM 470pF 100V PP APSV	OF15471540
C706				
C707		9965 000 01040	ELECT. 470μF M 6.3V RA-2	OA47700620
C708		9965 000 01040	ELECT. 470μF M 6.3V RA-2	OA47700620
C711				
≀		9965 000 02644	ELECT. 220μF M 100V RA2	OA22710020
C714				
C715		4822 124 11533	ELECT. 1μF M 100V RA2	OA10510020
C716		4822 124 11533	ELECT. 1μF M 100V RA2	OA10510020
C717		9965 000 01561	MICA 10pF 250V FE	DF31100520
C718		9965 000 01561	MICA 10pF 250V FE	DF31100520
C719		9965 000 05892	ELECT. 4.7μF M 100V RE3	EA47510010
C720		9965 000 05892	ELECT. 4.7μF M 100V	EA47510010
C727				
≀		9965 000 00438	FILM 120pF J 100V APSV	OF15121540
C730				
			P704-CAPACITORS (COMMON)	
C***			PLASTIC FILM CAPACITOR	
			±5% 50V :	
			C721-C726 CT21 CT23 CT25	

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			P704-RESISTORS	
⚠ R707				
≀		4822 050 21502	1.5kΩ ±5% 1/6W	GG05152160
⚠ R710				
R715		4822 100 12159	TRIM. 100kΩ RH0638CJ4R	RA01040780
R716		4822 100 12159	TRIM. 100kΩ RH0638CJ4R	RA01040780
⚠ R725				
≀		4822 052 10569	56Ω 1/6W	GG05560160
⚠ R736				
R743		4822 100 20681	TRIM. 2.2kΩ RH0638CJ3R	RA02220780
R744		4822 100 20681	TRIM. 2.2kΩ RH0638CJ3R	RA02220780
⚠ R749				
≀		4822 052 10109	10Ω ±5% 1/4W	GG05100140
⚠ R752				
⚠ R753				
≀		4822 052 10101	100Ω 1/6W	GG05101160
⚠ R756				
R757				
≀			JUMPER	75060501P0
R760				
⚠ R761		4822 052 10102	1kΩ ±5% 1/6W	GG05102160
⚠ R762		4822 052 10102	1kΩ ±5% 1/6W	GG05102160
⚠ R763				
≀		4822 052 10229	22Ω 1/6W	GG05220160
⚠ R766				
⚠ R767		4822 116 60319	FUSIBLE 220Ω ±5% 1/2W	NH05221120
⚠ R768		4822 116 60319	FUSIBLE 220Ω ±5% 1/2W	NH05221120
R769				
≀		4822 052 10228	2.2Ω ±5% 1/6W	GG05022160
R772				
⚠ R773		9965 000 01764	0.10Ω K 5W X2 RGC55 W/TP	BZ10102020
⚠ R774		9965 000 01764	0.10Ω K 5W X2 RGC55 W/TP	BZ10102020
⚠ R775		4822 052 10102	1kΩ 1/6W	GG05102160
⚠ R776		4822 052 10102	1kΩ 1/6W	GG05102160
⚠ R777		4822 050 22202	2.2kΩ ±5% 1/6W	GG05222160
⚠ R778		4822 050 22202	2.2kΩ ±5% 1/6W	GG05222160
⚠ R783		4822 116 83929	220Ω ±5% 1/4W	GG05221140
⚠ R784		4822 116 83929	220Ω ±5% 1/4W	GG05221140
⚠ R785		4822 053 10109	10Ω 1W	GA05100010
⚠ R786		4822 053 10109	10Ω 1W	GA05100010
⚠ RT07		4822 050 21502	1.5kΩ ±5% 1/6W	GG05152160
⚠ RT09		4822 050 21502	1.5kΩ ±5% 1/6W	GG05152160
RT15		4822 100 12159	TRIM. 100kΩ RH0638CJ4R	RA01040780
⚠ RT25		4822 052 10561	560Ω 1/6W	GG05561160
⚠ RT27		4822 052 10561	560Ω 1/6W	GG05561160
⚠ RT29		4822 052 10561	560Ω 1/6W	GG05561160
⚠ RT31		4822 052 10561	560Ω 1/6W	GG05561160
⚠ RT33		4822 052 10569	56Ω 1/6W	GG05560160
⚠ RT35		4822 052 10569	56Ω 1/6W	GG05560160
RT43		4822 100 20681	TRIM. 2.2kΩ RH0638CJ3R	RA02220780
⚠ RT49		4822 052 10109	10Ω ±5% 1/4W	GG05100140
⚠ RT51		4822 052 10109	10Ω ±5% 1/4W	GG05100140
⚠ RT53		4822 052 10101	100Ω 1/6W	GG05101160
⚠ RT55		4822 052 10101	100Ω 1/6W	GG05101160
RT57			JUMPER	75060501P0
RT59			JUMPER	75060501P0
⚠ RT61		4822 052 10102	1kΩ ±5% 1/6W	GG05102160
⚠ RT63		4822 052 10229	22Ω 1/6W	GG05220160
⚠ RT65		4822 052 10229	22Ω 1/6W	GG05220160
⚠ RT67		4822 116 60319	FUSIBLE 220Ω ±5% 1/2W	NH05221120
RT69		4822 052 10228	2.2Ω ±5% 1/6W	GG05022160
RT71		4822 052 10228	2.2Ω ±5% 1/6W	GG05022160
⚠ RT73		9965 000 01764	0.10Ω K 5W X2 RGC55 W/TP	BZ10102020
⚠ RT75		4822 052 10102	1kΩ 1/6W	GG05102160
⚠ RT77		4822 050 22202	2.2kΩ ±5% 1/6W	GG05222160
⚠ RT83		4822 116 83929	220Ω ±5% 1/4W	GG05221140
⚠ RT85		4822 053 10109	10Ω 1W	GA05100010

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			P704-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES.	
			±5% 1/6W : R701-R706	
			R711-R714 R717-R724	
			R737-R742 R745-R748	
			R779-R782 R787-R790 RT01	
			RT03 RT05 RT11 RT13 RT17	
			RT19 RT21 RT23 RT37 RT39	
			RT41 RT45 RT47 RT79 RT81	
			RT87 RT89	
			P704-SEMICONDUCTORS	
D701				
≀		4822 130 32362	DIODE 1SS176 MA165 1SS254	HD20002000
D704			30V 0.1A	
≀			JUMPER	75060501P0
D712				
D713				
≀		4822 130 80837	DIODE HSS81	HD20027010
D716				
D717				
≀		4822 130 80317	ZENER DIODE 5.1V	HD30511000
D720			RD5.1JB2 MTZJ5.1B	
D721		4822 130 80837	DIODE HSS81	HD20027010
D722		4822 130 80837	DIODE HSS81	HD20027010
DT01		4822 130 32362	DIODE 1SS176 MA165 1SS254	HD20002000
			30V 0.1A	
DT03		4822 130 32362	DIODE 1SS176 MA165 1SS254	HD20002000
			30V 0.1A	
DT05			JUMPER	75060501P0
DT07			JUMPER	75060501P0
DT09			JUMPER	75060501P0
DT11			JUMPER	75060501P0
DT13		4822 130 80837	DIODE HSS81	HD20027010
DT15		4822 130 80837	DIODE HSS81	HD20027010
DT17		4822 130 80317	ZENER DIODE 5.1V	HD30511000
			RD5.1JB2 MTZJ5.1B	
DT19		4822 130 80317	ZENER DIODE 5.1V	HD30511000
			RD5.1JB2 MTZJ5.1B	
DT21		4822 130 80837	DIODE HSS81	HD20027010
▲ K761				
≀			TRS. KIT 2SA1360 2SC3423	HK136019C0
▲ K763			PAIR O OR Y	
▲ K766				
≀			TRS. KIT 2SA1837 2SC4793	HK183719C0
▲ K768			MJI RANK	
▲ K771				
≀		4822 130 11394	TRS. KIT 2SA1216 2SC2922	HK121619F0
▲ K773			O OR Y PAIR	
Q701				
≀		4822 130 42949	TRS. 2SA970	HT109702A0
Q704				
Q705		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
Q706		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
Q707				
≀		4822 130 43283	TRS. 2SC2705 O OR Y	HT327052A0
Q710				
▲ Q711		5322 130 61728	TRS. 2SA1360 O OR Y	HT113602A0
▲ Q712		5322 130 61728	TRS. 2SA1360 O OR Y	HT113602A0
▲ Q713		5322 130 61737	TRS. 2SC3423 O OR Y	HT334232A0
▲ Q714		5322 130 61737	TRS. 2SC3423 O OR Y	HT334232A0
Q717		4822 130 43283	TRS. 2SC2705 O OR Y	HT327052A0
Q718		4822 130 43283	TRS. 2SC2705 O OR Y	HT327052A0
Q719		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
Q720		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
▲ Q721		4822 130 63635	TRS. 2SC4793 O OR Y	HT347932A0
▲ Q722		4822 130 63635	TRS. 2SC4793 O OR Y	HT347932A0

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
▲ Q723		4822 130 63634	TRS. 2SA1837 O OR Y	HT118372A0
▲ Q724		4822 130 63634	TRS. 2SA1837 O OR Y	HT118372A0
Q729		4822 130 43233	TRS. 2SC2240	HT322402A0
Q730		4822 130 43233	TRS. 2SC2240	HT322402A0
QT01		4822 130 42949	TRS. 2SA970	HT109702A0
QT03		4822 130 42949	TRS. 2SA970	HT109702A0
QT05		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
QT07		4822 130 43283	TRS. 2SC2705 O OR Y	HT327052A0
QT09		4822 130 43283	TRS. 2SC2705 O OR Y	HT327052A0
▲ QT11		5322 130 61728	TRS. 2SA1360 O OR Y	HT113602A0
▲ QT13		5322 130 61737	TRS. 2SC3423 O OR Y	HT334232A0
QT17		4822 130 43283	TRS. 2SC2705 O OR Y	HT327052A0
QT19		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
▲ QT21		4822 130 63635	TRS. 2SC4793 O OR Y	HT347932A0
▲ QT23		4822 130 63634	TRS. 2SA1837 O OR Y	HT118372A0
QT29		4822 130 43233	TRS. 2SC2240	HT322402A0
			P704-MISCELLANEOUS	
L701		4822 157 70022	AIR COIL SPK CHOCK COIL	ML08010030
L702		4822 157 70022	AIR COIL SPK CHOCK COIL	ML08010030
LT01		4822 157 70022	AIR COIL SPK CHOCK COIL	ML08010030
▲ S701		9965 000 01765	CIRCUIT BREAKER TEMP-SW	FR31200020
			120DEG. OHD3-120B	
▲ S702		9965 000 01765	CIRCUIT BREAKER TEMP-SW	FR31200020
			120DEG. OHD3-120B	
			P754- 2CH POWER-AMP.	
			CIRCUIT BOARD	
			P754-CAPACITORS	
C861		4822 124 90354	ELECT. 100μF 16V	OA1070162O
C862		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK1810331O
C871		4822 124 90354	ELECT. 100μF 16V	OA1070162O
C872		4822 122 30043	CER. 0.01μF +80%-20% Z 50V	DK1810331O
C881		4822 124 90354	ELECT. 100μF 16V	OA1070162O
C882		4822 126 10935	ELECT. 100μF M 6.3V	EJ1070061O
CN01		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD3810401O
CN02		4822 124 41539	ELECT. 47μF M 16V RA-2	OA4760162O
CN03		4822 124 41539	ELECT. 47μF M 16V RA-2	OA4760162O
CN04		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD3810401O
CN05		4822 124 90354	ELECT. 100μF 16V	OA1070162O
CN06		4822 124 90354	ELECT. 100μF 16V	OA1070162O
CN07		4822 124 41543	ELECT. 1μF 50V	OA1050502O
CN08		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD3810401O
CN09		4822 124 90353	ELECT. 100μF 10V	OA1070102O
CN10		4822 124 90362	ELECT. 22μF 50V	OA2260502O
CN11		5322 124 21731	ELECT. 10μF 50V	OA1060502O
CN12		4822 124 41539	ELECT. 47μF 16V	OA4760162O
CN13		4822 124 90354	ELECT. 100μF 16V	OA1070162O
CN14		4822 124 90354	ELECT. 100μF M 16V RA-2	OA1070162O
CN15		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD3810401O
CN16		9965 000 01040	ELECT. 470μF M 6.3V RA-2	OA4770062O
CN17		4822 124 12389	ELECT. BP 47μF M 16V	EQ4760163O
CP01		4822 124 90058	ELECT. 47μF M 25V ARA	OA4760255O
CP02		4822 124 90058	ELECT. 47μF M 25V ARA	OA4760255O
CP03				
≀		9965 000 05891	FILM CAP 470pF ±5% 100V	OF1547154O
CP06				
CP07		9965 000 01040	ELECT. 470μF M 6.3V RA-2	OA4770062O
CP08		9965 000 01040	ELECT. 470μF M 6.3V RA-2	OA4770062O
CP11				
≀		9965 000 02644	ELECT. 220μF M 100V RA-2	OA2271002O
CP14				
CP15		4822 124 11533	ELECT. 1μF M 100V RA2	OA1051002O
CP16		4822 124 11533	ELECT. 1μF M 100V RA2	OA1051002O
CP17		4822 123 30088	MICA 10pF ±0.5pF 250V FE	DF3110052O
CP18		4822 123 30088	MICA 10pF ±0.5pF 250V FE	DF3110052O

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CP19		9965 000 05892	ELECT. 4.7µF M 100V	EA47510010
CP20		9965 000 05892	ELECT. 4.7µF M 100V	EA47510010
CP27				
≀		9965 000 00438	FILM CAP 120pF ±5% 100V	OF15121540
CP30				
			P754-CAPACITORS (COMMON)	
C***			PLASTIC FILM CAPACITOR	
			±5% 50V : CP21-CP26	
			P754-RESISTORS	
▲ R881		4822 050 21021	100Ω ±5% 1/4W	GG05101140
▲ RN04		4822 050 21503	15kΩ ±5% 1/2W	GG05153120
▲ RN08		4822 050 23303	33kΩ ±5% 1/4W	GG05333140
▲ RN16		4822 052 10109	10Ω ±5% 1/6W	GG05100160
▲ RN44		4822 053 10221	220Ω ±5% 1W	GA05221010
▲ RN45		4822 053 10331	330Ω ±5% 1W	GA05331010
▲ RN46		4822 053 10331	330Ω ±5% 1W	GA05331010
▲ RP07				
≀			1.5kΩ ±5% 1/6W	GG05152160
▲ RP10				
RP15		9965 000 01766	TRIM. 100kΩ	RA01040760
RP16		9965 000 01766	TRIM. 100kΩ	RA01040760
▲ RP25				
≀		4822 052 10561	560Ω 1/6W	GG05561160
▲ RP32				
▲ RP33				
≀		4822 052 10569	56Ω 1/6W	GG05560160
▲ RP36				
RP43		9965 000 01566	TRIM. 2.2kΩ	RA02220760
RP44		9965 000 01566	TRIM. 2.2kΩ	RA02220760
▲ RP49				
≀		4822 052 10109	10Ω ±5% 1/4W	GG05100140
▲ RP52				
▲ RP53				
≀		4822 052 10101	100Ω 1/6W	GG05101160
▲ RP56				
RP57				
≀			JUMPER	75060501P0
RP60				
▲ RP61		4822 052 10102	1kΩ ±5% 1/6W	GG05102160
▲ RP62		4822 052 10102	1kΩ ±5% 1/6W	GG05102160
▲ RP63				
≀		4822 052 10229	22Ω 1/6W	GG05220160
▲ RP66				
▲ RP67		4822 116 60319	FUSIBLE 220Ω ±5% 1/2W	NH05221120
▲ RP68		4822 116 60319	FUSIBLE 220Ω ±5% 1/2W	NH05221120
RP69				
≀		4822 052 10228	2.2Ω ±5% 1/6W	GG05022160
RP72				
▲ RP73		9965 000 01764	0.10Ω K 5W X2 RGC55 W/TP	BZ10102020
▲ RP74		9965 000 01764	0.10Ω K 5W X2 RGC55 W/TP	BZ10102020
▲ RP75		4822 052 10102	1kΩ 1/6W	GG05102160
▲ RP76		4822 052 10102	1kΩ 1/6W	GG05102160
▲ RP77		4822 050 22202	2.2kΩ ±5% 1/6W	GG05222160
▲ RP78		4822 050 22202	2.2kΩ ±5% 1/6W	GG05222160
▲ RP83		4822 116 83929	220Ω ±5% 1/4W	GG05221140
▲ RP84		4822 116 83929	220Ω ±5% 1/4W	GG05221140
▲ RP85		4822 053 10109	10Ω ±5% 1W	GA05100010
▲ RP86		4822 053 10109	10Ω ±5% 1W	GA05100010
			P754-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES.	
			±5% 1/6W : RN01-RN03	
			RN05-RN07 RN09-RN15	
			RN17-RN43 RN48 RN49	
			RP01-RP06 RP11-RP14	
			RP17-RP24 RP37-RP42	
			RP45-RP48 RP79-RP82	
			RP89 RP90	

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			P754-SEMICONDUCTORS	
D861		4822 130 82421	DIODE 1D3	HD20002710
D871		4822 130 82421	DIODE 1D3	HD20002710
D881		4822 130 82421	DIODE 1D3	HD20002710
D882		4822 130 80132	ZENER DIODE 3.9V	HD30391000
			RD3.9ESB1 MTZJ3.9A	
DN01		4822 130 32362	DIODE 1SS176 MA165 1SS254	HD20002000
			30V 0.1A	
DN02		4822 130 32362	DIODE 1SS176 MA165 1SS254	HD20002000
			30V 0.1A	
DN03		4822 130 82421	DIODE 1D3	HD20002710
DN04		4822 130 82421	DIODE 1D3	HD20002710
DN05				
≀		4822 130 32362	DIODE 1SS176 MA165 1SS254	HD20002000
DN07			30V 0.1A	
DN09		4822 116 21235	VARISTOR	HP00004230
			PTH9M04BE222TS2F333	
DN10		4822 130 80837	DIODE HSS81	HD20027010
DP01				
≀		4822 130 32362	DIODE 1SS176 MA165 1SS254	HD20002000
DP04			30V 0.1A	
DP05				
≀			JUMPER	75060501P0
DP12				
DP13				
≀		4822 130 80837	DIODE HSS81	HD20027010
DP16				
DP17				
≀		4822 130 80317	ZENER DIODE 5.1V	HD30511000
DP20			RD5.1JB2 MTZJ5.1B	
DP21		4822 130 80837	DIODE HSS81	HD20027010
DP22		4822 130 80837	DIODE HSS81	HD20027010
▲ K764			TRS. KIT 2SA1360 2SC3423	HK136019C0
			PAIR O OR Y	
▲ K765			TRS. KIT 2SA1360 2SC3423	HK136019C0
			O OR Y	
▲ K769			TRS. KIT 2SA1837 2SC4793	HK183719C0
			MJI RANK	
▲ K770			TRS. KIT 2SA1837 2SC4793	HK183719C0
			MJI RANK	
▲ K774		4822 130 11394	TRS. KIT 2SA1216 2SC2922	HK121619F0
			O OR Y PAIR	
▲ K775		4822 130 11394	TRS. KIT 2SA1216 2SC2922	HK121619F0
			O OR Y PAIR	
▲ Q861		4822 209 83824	IC NJM7805FA +5V	HC38905090
▲ Q871		4822 209 83824	IC NJM7805FA +5V	HC38905090
▲ Q881		4822 130 63635	TRS. 2SC4793 O OR Y	HT347932A0
QN01		4822 209 83312	IC TA7317P	HC10042050
QN02		4822 130 42594	DIG.TRS. DTC144ES	BA20002000
QN03		4822 130 42949	TRS. 2SA970	HT109702A0
QN04		4822 130 60526	TRS. 2SD1508 HFE>4000	HT415080A0
QN05		4822 130 42594	DIG.TRS. DTC144ES	BA20002000
QN06		4822 130 60696	TRS. 2SC1627 O OR Y	HT316272B0
▲ QN07		9965 000 01771	IC PQ30RV11	HC36930320
QN08		4822 130 41947	TRS. 2SC536SP 2SC2458	HT30001000
			2SC3311 2SC1740S	
QN09		4822 130 41947	TRS. 2SC536SP 2SC2458	HT30001000
			2SC3311 2SC1740S	
QN10		4822 130 41947	TRS. 2SC536SP 2SC2458	HT30001000
			2SC3311 2SC1740S	
QN11		4822 130 43233	TRS. 2SC2240	HT322402A0
QN12		4822 130 43233	TRS. 2SC2240	HT322402A0
QN13		4822 130 41947	TRS. 2SC536SP 2SC2458	HT30001000
			2SC3311 2SC1740S	
QN14		4822 130 42715	TRS. 2SA608SP ETC	HT10001000

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
QP01 ∫ QP04		4822 130 42949	TRS. 2SA970	HT109702A0
QP05		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
QP06		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
QP07 ∫ QP10		4822 130 43283	TRS. 2SC2705 O OR Y	HT327052A0
⚠ QP11		5322 130 61728	TRS. 2SA1360 O OR Y	HT113602A0
⚠ QP12		5322 130 61728	TRS. 2SA1360 O OR Y	HT113602A0
⚠ QP13		5322 130 61737	TRS. 2SC3423 O OR Y	HT334232A0
⚠ QP14		5322 130 61737	TRS. 2SC3423 O OR Y	HT334232A0
QP15		4822 130 60117	TRS. 2SC3419 Y	HT334191Y0
QP16		4822 130 60117	TRS. 2SC3419 Y	HT334191Y0
QP17		4822 130 43283	TRS. 2SC2705 O OR Y	HT327052A0
QP18		4822 130 43283	TRS. 2SC2705 O OR Y	HT327052A0
QP19		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
QP20		4822 130 42999	TRS. 2SA1145 O OR Y	HT111452A0
⚠ QP21		4822 130 63635	TRS. 2SC4793 O OR Y	HT347932A0
⚠ QP22		4822 130 63635	TRS. 2SC4793 O OR Y	HT347932A0
⚠ QP23		4822 130 63634	TRS. 2SA1837 O OR Y	HT118372A0
⚠ QP24		4822 130 63634	TRS. 2SA1837 O OR Y	HT118372A0
⚠ QP25		9965 000 01762	TRS. 2SC2922 O OR Y	HT329222A0
⚠ QP26		9965 000 01762	TRS. 2SC2922 O OR Y	HT329222A0
⚠ QP27		9965 000 01763	TRS. 2SA1216 O OR Y	HT112162A0
⚠ QP28		9965 000 01763	TRS. 2SA1216 O OR Y	HT112162A0
QP29		4822 130 43233	TRS. 2SC2240	HT322402A0
QP30		4822 130 43233	TRS. 2SC2240	HT322402A0
			P754-MISCELLANEOUS	
LN01		9965 000 01343	RELAY RELAY MR62-12SR	LY20120510
LP01		4822 157 70022	AIR COIL SPK CHOCK COIL	ML08010030
LP02		4822 157 70022	AIR COIL SPK CHOCK COIL	ML08010030
⚠ MN51		9965 000 01770	D.C MOTOR FBA08A12H0 DC FAN 12V	MM01200320
⚠ ZN51		9965 000 01772	DC FAN MOTOR UNIT W 3P WIRE	ZK300J0020
			P774-PO-AMP.TR-BLOCK 3CH CIRCUIT BOARD	
			P774-SEMICONDUCTORS	
D799		4822 116 21235	VARISTOR PTH9M04BE222TS2F333	HP00004230
Q715		4822 130 60117	TRS. 2SC3419 Y	HT334191Y0
Q716		4822 130 60117	TRS. 2SC3419 Y	HT334191Y0
⚠ Q725		9965 000 01762	TRS. 2SC2922 O OR Y	HT329222A0
⚠ Q726		9965 000 01762	TRS. 2SC2922 O OR Y	HT329222A0
⚠ Q727		9965 000 01763	TRS. 2SA1216 O OR Y	HT112162A0
⚠ Q728		9965 000 01763	TRS. 2SA1216 O OR Y	HT112162A0
QT15		4822 130 60117	TRS. 2SC3419 Y	HT334191Y0
⚠ QT25		9965 000 01762	TRS. 2SC2922 O OR Y	HT329222A0
⚠ QT27		9965 000 01763	TRS. 2SA1216 O OR Y	HT112162A0
			P804-POWER SUPPLY ±15V CIRCUIT BOARD	
			P804-CAPACITORS	
C801		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
C802		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
C803		4822 124 81133	ELECT. 4700µF 25V	OA47802520
C804		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
C805		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
C806		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
C807		4822 124 81133	ELECT. 4700µF 25V	OA47802520
C808		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310
C817		5322 124 21731	ELECT. 10µF M 50V	OA10605020
C818		4822 122 30043	CER. 0.01µF +80%-20% Z 50V	DK18103310

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			P804-RESISTORS	
R801			JUMPER	75060501P0
R802			JUMPER	75060501P0
R813			100Ω ±5% 1/6W	GD05101160
			P804-SEMICONDUCTORS	
⚠ D801		4822 130 83067	DIODE D3SB 20 V=200V IO=3.0A	HE20020290
D802		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
D807		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
⚠ Q801		4822 209 70084	IC NJM7812FA +12V 1A	HC38912090
⚠ Q806		4822 130 11605	TRS. 2SD1415	HT41415100
			P804-MISCELLANEOUS	
⚠ F801	/K,/N,/S	4822 117 10158	1Ω ±5% 1/4W	GG05010140
⚠ F801	/F		FUSE T2A 125V UL CSA	FS20200220
⚠ F801	/U		FUSE T2A 250V TR5 NO.19374	FS20200210
⚠ F802	/K,/N,/S	4822 117 10158	1Ω ±5% 1/4W	GG05010140
⚠ F802	/F		FUSE T2A 125V UL CSA	FS20200220
⚠ F802	/U		FUSE T2A 250V TR5 NO 19374	FS20200210
			P854- MAIN+B CIRCUIT BOARD	
			P854-CAPACITORS	
C851		4822 122 30043	CER. 0.01µF +80%-20% E 500V	DK18103560
C852		4822 126 12453	CER. 0.01µF +80%-20% E 500V	DK18103560
⚠ C853	/K,/N, /S,/U	9965 000 01773	ELECT. 56000µF 71V x2	EI56907120
⚠ C853	/F		ELECT. 56000µF 71V x2	OB56907120
⚠ C854	/F,/K,/U	4822 126 12453	CER. 0.01µF +80%-20% E 500V	DK18103560
⚠ C855	/F,/K,/U	4822 121 43363	FILM 0.22µF ±20% ECQ-U 250V AC UL CSA VDE	DF17224800
C857		4822 124 40763	ELECT. 2.2µF M 50V RA-2	OA22505020
			P854-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES. ±5% 1/6W : R851-R854	
			P854-SEMICONDUCTORS	
⚠ D851		9965 000 01578	DIODE D25XB60 BRIDGE	HE20029290
D853		4822 130 82421	DIODE 1D3	HD20002710
D854		4822 130 82421	DIODE 1D3	HD20002710
			PB04-PRIMARY CIRCUIT BOARD [F, U] VERSION	
			PB04-CAPACITORS	
CB01	/F	4822 122 33276	CER. 0.01µF ±20% DE1610 F SPARK KILLER	DK17103900
CB01	/U	4822 122 33276	CER. 0.01µF ±20% DE7150 F SPARK KILLER	DK17103840
CB02	/F	4822 122 33276	CER. 0.01µF ±20% DE1610 F SPARK KILLER	DK17103900
CB02	/U	4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CB03	/U	4822 122 33276	CER. 0.01µF ±20% DE7150 F SPARK KILLER	DK17103840
			PB04-RESISTORS	
RB01	/U		2.2MΩ ±10% 1/2W FOR UL	RC10225820
⚠ RB02	/U	9965 000 01761	ROTOR 2.2Ω 7W W/TEMP.FUSE	NQ15022070
⚠ RB05	/U	9965 000 01761	ROTOR 2.2Ω 7W W/TEMP.FUSE	NQ15022070
			PB04-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES. ±5% 1/6W : RB03 RB04	

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PB04-SEMICONDUCTORS	
DB01	/U	4822 130 82421	DIODE 1D3 1A 200V	HD20002710
DB02	/U	4822 130 82421	DIODE 1D3 1A 200V	HD20002710
QB01	/U	4822 130 42682	DIG.TRS. DTA144ES UN4113 47k 47k	BA10002000
QB02	/U	4822 130 60117	TRS. 2SC3419 O OR Y 40V 0.8A PC=1.2W 5W	HT334192A0
			PB04-MISCELLANEOUS	
⚠ FB01	/F		FUSE 15A 250V UL CSA MITI	FS11500440
⚠ FB01	/U		FUSE 12A 250V UL CSA MITI NO.314	FS11200440
⚠ FB02	/F		FUSE 15A 250V UL CSA MITI	FS11500440
⚠ FB02	/U		FUSE 630mA 250V UL CSA FBM	FS10063360
JB03	/U		JACK 2P AC OUTLET CCT1304-0212	YJ04002040
LB02	/U	4822 280 80773	RELAY VS24MB-NR TV-8 SEMKO LISTED	LY10240240
LB03	/U	4822 280 80773	RELAY VS24MB-NR TV-8 SEMKO LISTED	LY10240240
			PB54-PRIMARY CIRCUIT BOARD [/K, /N, /S] VERSION **PB54-CAPACITORS**	
CB51	/K,/N,/S	4822 122 33276	CER. 0.01µF ±20% DE7150 F SPARK KILLER	DK17103840
CB52	/K,/N,/S	4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CB53	/K,/N,/S	4822 122 33276	CER. 0.01µF ±20% DE7150 F SPARK KILLER	DK17103840
			PB54-RESISTORS	
⚠ RB52	/K,/N,/S	9965 000 01761	ROTOR 2.2Ω 7W W/TEMP FUSE	NQ15022070
⚠ RB55	/K,/N,/S	9965 000 01761	ROTOR 2.2Ω 7W W/TEMP.FUSE	NQ15022070
			PB54-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES. ±5% 1/6W : RB53 RB54	
			PB54-SEMICONDUCTORS	
DB51	/K,/N,/S	4822 130 82421	DIODE 1D3 1A 200V	HD20002710
DB52	/K,/N,/S	4822 130 82421	DIODE 1D3 1A 200V	HD20002710
QB51	/K,/N,/S	4822 130 42682	DIG.TRS. DTA144ES UN4113 47k 47k	BA10002000
QB52	/K,/N,/S	4822 130 60117	TRS. 2SC3419 O OR Y 40V 0.8A PC=1.2W	HT334192A0
			PB54-MISCELLANEOUS	
⚠ FB51	/K,/N,/S	4822 070 36302	FUSE T6.3A 250V BS LISTED	FS10630850
⚠ FB52	/K,/N,/S	4822 070 32001	FUSE T200mA 250V BS LISTED	FS10020850
LB52	/K,/N,/S	4822 280 80773	RELAY VS24MB-NR TV-8 SEMKO LISTED	LY10240240
LB53	/K,/N,/S	4822 280 80773	RELAY VS24MB-NR TV-8 SEMKO LISTED	LY10240240
			PB74- POWER SW CIRCUIT BOARD	
CB71	/K,/N, /S,/U	4822 122 33276	CER. 0.01µF ±20% DE7150 F SPARK KILLER	DK17103840
CB71	/F	4822 122 33276	CER. 0.01µF ±20% DE7150 F SPARK KILLER	DK17103900
⚠ SB71		9965 000 01777	PUSH SWITCH SDDLB1 POWER TV-5	SP01012460

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PL04-CVBS VIDEO SELECTOR CIRCUIT BOARD **PL04-CAPACITORS**	
CC53		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CC54		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CC55		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CC56		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CC59		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CC60		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CC61		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CC62		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CC64		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CC65		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CC67 ~ CC70	/N. /S	4822 122 31205	CER. 47pF J CH 50V BLK	DD15470300
CC73		9965 000 06288	ELECT. 22µ! 25V	EA22602520
CC74		9965 000 06288	ELECT. 22µ! 25V	EA22602520
CC75		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CC76		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CC78			JUMPER	75060501P0
CC81		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CC82		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CC85		4822 126 10362	CER. 22pF	DA15220110
CC86		9965 000 06288	ELECT. 22µ! 25V	EA22602520
CC87		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CC88		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CC95		4822 122 30043	CER. 0.01µF Z 50	DK18103310
CL01		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL02		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL03		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL05		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL07		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL08		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL09		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL11 ~ CL23		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL24		9965 000 01040	ELECT. 470µF M 6.3V RA-2	OA47700620
CL25 ~ CL31		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL32		9965 000 01040	ELECT. 470µF M 6.3V RA-2	OA47700620
CL33		9965 000 01040	ELECT. 470µF M 6.3V RA-2	OA47700620
CL34		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CL35		4822 124 41537	ELECT. 220 µF M 6.3V RA-2	OA22700620
CL36		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CL37		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CL38		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CL39		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CL40		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CL41		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CL42		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CL43		4822 124 41537	ELECT. 220µF M 6.3V RA-2	OA22700620
CL44		4822 122 40617	CER. 0.1µF 50V	DD38104010
CL45		4822 124 90353	ELECT. 100µF M 10V	OA10701020
CL46	/K, /N /S	4822 126 10362	CER. 22pF	DA15220110
CL47	/K, /N /S	4822 126 11553	CER. 15pF	DA15150120
CL48	/K, /N /S	4822 126 10362	CER. 22pF	DA15220110
CL48	/U	4822 122 33638	CER. 27pF	DA15270110
CL49		4822 126 11591	CER. 24pF J CH 50V BLK	DD15240300
CL50		4822 126 10362	CER. 22pF	DA15220110
CL52		4822 124 41543	ELECT. 1µF M 50V RA-2	OA10505020
CL53		4822 122 40617	CER. 0.1µF 50V	DD38104010
CL54		4822 124 41537	ELECT. 220 µF M 6.3V RA-2	OA22700620

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CL55		4822 124 41543	ELECT. 1µF M 50V RA-2	OA10505020
CL56		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL57		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL58		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL59		9965 000 01040	ELECT. 470µF M 6.3V RA-2	OA47700620
CL60		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL61		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CL62		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CL63		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CL64		4822 124 41537	ELECT. 220µF M 6.3V RA-2	OA22700620
CL65		4822 122 40617	CER. 0.1µF 50V	DD38104010
CL67	/U	4822 126 10362	CER. 22pF	DA15220110
CL68		4822 124 41543	ELECT. 1µF M 50V RA-2	OA10505020
CL69		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL70		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CL71 ∫ CL74		4822 126 11558	CER. 0.1µF 50V	DA17104110
CL75		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL79		4822 124 41543	ELECT. 1µF M 50V RA-2	OA10505020
CL80		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CL81 ∫ CL86		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL87	/N	4822 124 41537	ELECT. 220µF M 6.3V RA-2	OA22700620
CL98		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL99		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
		4822 122 30043		
			PL04-CAPACITORS (COMMON)	
C***			HIGH DIELECTRIC CONSTANT CER. CAPACITOR ±10% 50V : CC51 CC52 CC57 CC58 CL51 CL76 CL77	
C***			ELECTROLYTIC CAPACITOR ±20% : CC71 CC72	
C***			PLASTIC FILM CAPACITOR ±5% 50V : CC79 CC80 CC73 CC84 CL78	
			PL04-RESISTORS	
RC81			JUMPER	75060501P0
RC92			JUMPER	75060501P0
RL01		4822 111 41355	RES. 75Ω ±5% 1/6W	GD05750160
RL03		4822 111 41355	RES. 75Ω ±5% 1/6W	GD05750160
RL05		4822 111 41355	RES. 75Ω ±5% 1/6W	GD05750160
RL07		4822 111 41355	RES. 75Ω ±5% 1/6W	GD05750160
RL09		4822 111 41355	RES. 75Ω ±5% 1/6W	GD05750160
RL53			JUMPER JUMPER WIRE	75060501P0
			PL04-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES. ±5% 1/6W : RC51-RC54 RC57 RC58-RC64 RC66-RC79 RC83 RC86 RC87 RC89 RC91 RC93-RC97 RL02 RL04 RL06 RL08 RL10-RL15 RL18-RL26 RL28 RL32 RL39-RL43 RL51 RL52 RL54	
			PL04-SEMICONDUCTORS	
DL07		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DL21		4822 130 32362	DIODE SUBSTITUTE	HD20002000
DL22		4822 130 32362	DIODE SUBSTITUTE	HD20002000
QC51		4822 209 73953	IC NJM4580DD DUAL OP-ANP	HC10112090

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
QC52		4822 209 73953	IC NJM4580DD DUAL OP-ANP	HC10112090
QC71		4822 209 73953	IC NJM4580DD	HC10112090
QC72		4822 209 73953	IC NJM4580DD	HC10112090
QC73		4822 209 73953	IC NJM4580DD	HC10112090
QC95		5322 209 11322	IC 74HC08 2-INPUT AND GATE	HC700800B0
QL01		9965 000 01371	IC MM1140XF	HC10083550
QL02		4822 209 32928	IC BA7612N	HC10201210
QL03		9965 000 01372	IC BA7649A G-1 VIDEO SW	HC10179210
QL04		4822 209 31527	IC BA7613N	HC10202210
QL05		9965 000 01372	IC BA7649A G-1 VIDEO SW	HC10179210
QL06		4822 209 31527	IC BA7613N	HC10202210
QL07		4822 209 16846	IC NJU3718L	HC10171090
QL08		4822 209 32246	IC NJM2244 3IN SW 75Ω DRIVER	HC10119090
QL09		4822 209 15524	IC LC74781 OSD IC	HC10377030
QL10	/K,/N,/S	4822 130 61227	DIG.TRS. DTA114ES ETC	BA10001000
QL11	/K,/N,/S	4822 130 61189	DIG.TRS. DTC114TS UN4215 10K	BA20004000
QL12	/K,/N,/S	4822 130 61189	DIG.TRS. DTC114TS UN4215 10K	BA20004000
QL14		4822 209 32246	IC NJM2244 3IN SW 75Ω DRIVER	HC10119090
QL15		9965 000 06284	DIG.TRS. DTC144VSA 47K/10K	BA20068210
QL16		4822 130 41947	TRS. 2SC2458 2SC1740S 2SC3199 ETC	HT30001000
QL17		4822 130 60588	DIG.TRS. DTC114ES UN4211 10k 10k	BA20001000
QL18		5322 209 71773	IC TC74HC132AP	HC713205D0
QL19		4822 130 60588	DIG.TRS. DTC114ES UN4211 10k 10k	BA20001000
QL21		4822 130 41947	TRS. 2SC2458 2SC1740S 2SC3199 ETC	HT30001000
			PL04-MISCELLANEOUS	
JC51		9965 000 06306	TERMINAL YKC21-4170 1L4P	YT02041290
JL01		4822 265 31299	TERMINAL 3P RCA YELLOW	YT02030340
JL02		4822 265 31299	TERMINAL 3P RCA YELLOW	YT02030340
JL03		9965 000 06305	TERMINAL 3P RCA YELLOW	YT02030620
LL01		4822 157 62922	CHOKE COIL CHOKE 33UH J	LC13333800
LL02		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
XL01	/K,/N,/S	4822 242 73903	CRYSTAL AT49 17.7MHz	JX17001260
XL02		4822 242 80288	CRYSTAL AT49 14.31818MHz	JX14001260
			PL74-AUX INPUT CIRCUIT BOARD	
			PL74-CAPACITORS	
CL75	/N, /S	4822 126 11568	CER.CHIP 470pF	DK96471300
CL76	/N, /S	4822 126 11568	CER.CHIP 470pF	DK96471300
CL77	/N, /S	4822 122 33777	CER.CHIP 47pF	DD95470300
CL78	/N, /S	4822 122 33777	CER.CHIP 47pF	DD95470300
CL79 ∫ CL82		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CL83		4822 124 11947	ELECT. 10µ! 16V	EQ10601630
CL84		4822 111 41305	RES. 0Ω	GD05000140
CL88		4822 111 41305	RES. 0Ω	GD05000140
CL89		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CL90		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CL91 ∫ CL98		4822 111 41305	RES. 0Ω	GD05000140
			PL74-RESISTORS	
RL75		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RL76		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
RL77		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RL78		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RL79 ~ RL82		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RL83		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RL84		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RL85		4822 051 30759	CHIP 75Ω ±5% 1/16W	NN05750610
RL86		4822 051 30759	CHIP 75Ω ±5% 1/16W	NN05750610
RL88		4822 051 30759	CHIP 75Ω ±5% 1/16W	NN05750610
			PL74-SEMICONDUCTORS	
QL75		4822 209 71451	IC NJM4558M Y	HC10011090
			PL74-MISCELLANEOUS	
JL75		9965 000 01347	TERMINAL RCA JACK 3P + S-TERMINAL AUX	BY04040030
			PS04-A-FUNC/PRE SUPPLY CIRCUIT BOARD KIT	
			PS04-CAPACITORS	
CG01 ~ CG06		4822 124 80067	ELECT. 4.7μF M 50V RA-2	OA47505020
CG09		4822 124 22277	ELECT. 470μF M 16V	OA47701620
CQ01			JUMPER	75060501P0
CQ02			JUMPER	75060501P0
CQ03			JUMPER	75060501P0
CQ08		4822 122 40617	CER. 0.1μF 50V	DD38104010
CQ09	/N, /S	4822 122 31205	CER. 47pF J CH 50V BLK	DD15470300
CQ10	/N, /S	4822 122 31205	CER. 47pF J CH 50V BLK	DD15470300
CS01 ~ CS10	14A	9965 000 06301	ELECT. 22μF M 35V ARS	OA22603540
CS01 ~ CS10	18A	482212441539	ELECT. 47μF M 16V RA-2	OA47601620
CS11		4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620
CS12		4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620
CS13	14A	9965 000 06301	ELECT. 22μF M 35V ARS	OA22603540
CS14	14A	9965 000 06301	ELECT. 22μF M 35V ARS	OA22603540
CS13	18A	482212441539	ELECT. 47μF M 16V RA-2	OA47601620
CS14	18A	482212441539	ELECT. 47μF M 16V RA-2	OA47601620
CS15		5322 124 21731	ELECT. 10μF M 16V RA-2	OA10605020
CS16		5322 124 21731	ELECT. 10μF M 16V RA-2	OA10605020
CS17	14A	9965 000 06301	ELECT. 22μF M 35V ARS	OA22603540
CS18	14A	9965 000 06301	ELECT. 22μF M 35V ARS	OA22603540
CS17	18A	482212441539	ELECT. 47μF M 16V RA-2	OA47601620
CS18	18A	482212441539	ELECT. 47μF M 16V RA-2	OA47601620
CS19 ~ CS22		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
CS23		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620
CS24		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620
CS25 ~ CS28	14A	9965 000 02015	ELECT. 22μF M 25V ARS	OA22602540
CS25 ~ CS28	18A	482212441539	ELECT. 47μF M 16V RA-2	OA47601620
CS29 ~ CS34		4822 124 80067	ELECT. 4.7μF M 50V RA-2	OA47505020
CS35		4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620
CS36		4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620
CS55	/N, /S	4822 122 31205	CER. 47pF J CH 50V BLK	DD15470300
CS56	/N, /S	4822 122 31205	CER. 47pF J CH 50V BLK	DD15470300
CS57		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620
CS58		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CS59 ~ CS62	/N, /S	4822 122 31205	CER. 47pF J CH 50V BLK	DD15470300
CS63		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
CS64		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
CS65 ~ CS70	/N, /S	4822 122 31205	CER. 47pF J CH 50V BLK	DD15470300
CS73 ~ CS76	/N, /S	4822 122 31205	CER. 47pF J CH 50V BLK	DD15470300
CS79	/N, /S	4822 122 31205	CER. 47pF J CH 50V BLK	DD15470300
CS80	/N, /S	4822 122 31205	CER. 47pF J CH 50V BLK	DD15470300
CS81			JUMPER	75060501P0
CS82			JUMPER	75060501P0
CS83			JUMPER	75060501P0
CS84		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
CS85		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
CS86		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620
CS87		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620
CS88		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
CS89		4822 124 80067	ELECT. 4.7μF M 50V RA-2	OA47505020
CS90		4822 124 80067	ELECT. 4.7μF M 50V RA-2	OA47505020
CS93	/N, /S	4822 122 31205	CER. 47pF J CH 50V BLK	DD15470300
CS94	/N, /S	4822 122 31205	CER. 47pF J CH 50V BLK	DD15470300
CS97		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
CS98		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
CS99		4822 122 40617	CER. 0.1μF 50V	DD38104010
C809		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
C810		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
C811		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
C812		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
C813		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
C814		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
C815		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
C816		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
C819		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
C820		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
C821		9965 000 01351	ELECT. 13000μF M 16V RE3	EA13901670
C824		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
C825		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
C826		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
C827		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
C828		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
C830		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
C832		9965 000 01352	ELECT. 470μF 63V	EA47706310
C833		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
C834		4822 124 80772	ELECT. 47μF M 35V RA-2	OA47603520
C835		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
C836		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
C840		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
C841		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
C843		4822 124 90355	ELECT. 100μF M 50V RA-2	OA10705020
C844		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
C845		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
C847		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
C848		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
C851		4822 124 41538	ELECT. 220μF 35V	OA22703520
C852		4822 124 40763	ELECT. 2.2μF 50V	OA22505020
C***			**PS04-CAPACITORS (COMMON)** HIGH DIELECTRIC CONSTANT CER. CAPACITOR ±10% 50V : CG07- CG08[/N, /S] CQ06 CQ07 CS37-CS54[/N, /S] CS71-CS72[/N, /S] CS91-CS92[/N, /S] CS95-CS96[/N, /S]	

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
C***			ELECTROLYTIC CAPACITOR ±20% : C823 C842 C849	
			PS04-RESISTORS	
▲ RG15		4822 115 90166	FUSE RES. 10Ω ±2% 1/4W	NF02100140
RS43			JUMPER	75060501P0
RS44			JUMPER	75060501P0
RS96			JUMPER	75060501P0
RS97			JUMPER	75060501P0
▲ R804		4822 117 10158	RES. 1Ω ±5% 1/4W	GG05010140
R807		4822 053 10222	RES. 2.2kΩ ±5% 1W	GA05222010
▲ R811		4822 111 90731	FUSE RES. 47Ω ±2% 1/4W	NF02470140
▲ R817		4822 115 90167	FUSE RES. 100Ω ±2% 1/4W	NF02101140
R818			JUMPER	75060501P0
			PS04-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES. ±5% 1/6W : R806 R808 R810 R812 R814-R816 R819 RG01-RG06 RG09-RG14 RG16-RG20 RQ25-RQ30 RS01-RS10 RS13-RS42 RS47-RS99 RU01-RU09 RU11-RU19 RU21-RU29 RU31-RU44 RY48 RU51 RU52 RU55-RU58 RU61-RU63	
			PS04-SEMICONDUCTORS	
DG01		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
DG02		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DG03		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DS01		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DS02		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
D803 ∫ D806		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
▲ D808		4822 130 83438	DIODE D5SB-20 5A 200V	HE20016290
D810		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
D811		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
D812		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
D813		9965 000 06297	ZENER DIODE MTZJ36D	HD33601000
D814		4822 130 80318	ZENER DIODE 6.8V	HD30681000
D815 ∫ D825		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
▲ D826		4822 130 81247	DIODE 1GWJ43	HD20031050
D827			JUMPER	75060501P0
D828		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
D829		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
D830		4822 130 32362	DIODE 1S133	HD20002000
QG01		9965 000 01358	IC ELE.VOL.TC9459N	HC10443050
QG02		4822 209 83631	IC NJM4558D-D	HC10008090
QG03		4822 130 63634	TRS. 2SA1837 Q.Y	HT118372A0
QG04		4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
QG05		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0
QG06		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0
QG07		4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
QS01 ∫ QS11		4822 209 83631	IC NJM4558D-D	HC10008090
QS12		4822 209 32552	IC LC78211	HC10308030
QS13		4822 209 32553	IC LC78212	HC10309030

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
QS14		4822 209 32553	IC LC78212	HC10309030
QS15		4822 209 32552	IC LC78211	HC10308030
QS16		4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
QS17 ∫ QS20		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0
QS21		4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
QS22		4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
QS23		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0
QS24		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0
QS25		4822 209 83631	IC NJM4558D-D	HC10008090
QS26		4822 130 90347	PHOTO UNIT PC-817 PHOTO CUPLER 1PAIR	HW10006320
QS27		4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
▲ Q802		9965 000 01354	IC L780S15 +15V 1A	HC38915030
▲ Q803		4822 209 61256	IC NJM7915FA -15V 1A	HC39915090
▲ Q804		4822 130 11605	TRS. 2SD1415	HT41415100
▲ Q805		4822 209 61256	IC NJM7915FA -15V 1A	HC39915090
▲ Q807		4822 209 30258	IC NJM7905FA -5V 1A	HC39905090
▲ Q808		4822 209 73674	IC NJM7806FA +6V	HC38906090
Q809		4822 130 60117	TRS. 2S2SC3419 O OR Y 40V 0.8A PC=1.2W 5W	HT334192A0
Q810		4822 130 41947	TRS. 2SC2458 2SC1704S 2SC3199 ETC.	HT30001000
Q811		4822 209 14883	IC S-806C 4.55V V-SENSOR	HC10075530
Q812		4822 130 61227	DIG.TRS. DTA114ES ETC	BA10001000
Q813		4822 130 60588	DIG.TRS. DTC114ES ETC	BA20001000
			PS04-MISCELLANEOUS	
JS01		4822 265 10729	TERMINAL 8P RCA PIN JACK WHITE/RED AU	YT02080130
JS03		4822 290 61244	TERMINAL 6P RCA PIN JACK WHITE/RED AU	YT02060490
JS04		4822 290 61244	TERMINAL 6P RCA PIN JACK WHITE/RED AU	YT02060490
JS06		4822 290 61244	TERMINAL 6P RCA PIN JACK WHITE/RED AU	YT02060490
JS07		9965 000 01355	TERMINAL 4P RCA RC-51MULTI RC	YT02041260
LG01		9965 000 01576	RELAY MR82-24USR	LY20240480
▲ L801		9965 000 01353	RELAY FTR-F1AA024T	LY20240460
			PT04-SPK. TERMINAL CIRCUIT BOARD	
			PT04-CAPACITORS	
CN51 ∫ CN58	/N, /S	4822 122 30043	CER. 0.01μF Z 50V	DK18103310
			PT04-SEMICONDUCTORS	
DN51		4822 130 82421	DIODE 1D3	HD20002710
DN52		4822 130 82421	DIODE 1D3	HD20002710
DN53		4822 130 82421	DIODE 1D3	HD20002710
			PT04-MISCELLANEOUS	
JN54	/K,/N,/S	9965 000 01774	TERMINAL SPK. 4P RR/BB IEC	YT01040830
JN54	/U		TERMINAL SPK. 4P RR/BB	YT01040860
JN55	/K,/N,/S	9965 000 01775	TERMINAL SPK. 4P BB/RR IEC	YT01040840
JN55	/U		TERMINAL SPK 4P BB/RR	YT01040850
LN51		4822 280 10305	RELAY VB-18MBU-565-UL3	LY20180020
LN52		4822 280 10305	RELAY VB-18MBU-565-UL3	LY20180020
LN53		4822 280 10305	RELAY VB-18MBU-565-UL3	LY20180020

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PT74-CENTER SPEAKER TERMINAL CIRCUIT BOARD	
CN71	/N, /S	4822 122 30043	CER. 0.01µF Z 50V	DK18103310
JN71	/K,/N,/S	9965 000 01776	TERMINAL T6976 2P SPK. N B-R	YT01020390
JN71	/U		TERMINAL 2P SPK B/R	YT01020410
			PU04-FRONT/FL DISPLAY/SW. CIRCUIT BOARD	
			PU04-CAPACITORS	
CU01		4822 126 11558	CER. 0.1µF 50V	DA17104110
CU02		4822 126 11558	CER. 0.1µF 50V	DA17104110
CU03		4822 126 11558	CER. 0.1µF 50V	DA17104110
CU04		4822 126 10935	ELECT. 100µF M 6.3V	EJ10700610
CU05 ∫ CU08		4822 126 10364	CER. 100pF 50V	DA16101110
CU09 ∫ CU12		4822 126 11558	CER. 0.1µF 50V	DA17104110
CU13		4822 122 33639	CER. 1000pF 50V	DA16102110
CU14		4822 126 11558	CER. 0.1µF 50V	DA17104110
CU15		4822 126 11558	CER. 0.1µF 50V	DA17104110
CU16		4822 126 11558	CER. 0.1µF 50V	DA17104110
CU17		4822 122 33639	CER. 1000pF 50V	DA16102110
CU18		4822 126 10364	CER. 100pF 50V	DA16101110
CU19		4822 126 10364	CER. 100pF 50V	DA16101110
CU20		4822 126 10513	CER. 47pF 50V	DA15470110
CU21 ∫ CU26		4822 126 11558	CER. 0.1µF 50V	DA17104110
CU27		4822 122 40586	CER. 0.01µF	DA17103110
CU30		4822 126 10935	ELECT. 100µF M 6.3V	EJ10700610
CU31		4822 124 80665	ELECT. 100µF M 6.3V	EJ10605010
CU32		4822 122 40586	CER. 0.01µF	DA17103110
			PU04-SEMICONDUCTORS	
DU01 ∫ DU06		4822 130 11363	L.E.D. LT3K44B GREEN 30MA	HI10095320
DU07		4822 130 32362	DIODE SUBSTITUTE	HD20002000
DU08		4822 130 32362	DIODE SUBSTITUTE	HD20002000
DU20		4822 130 32362	DIODE SUBSTITUTE	HD20002000
DU21		4822 130 32362	DIODE SUBSTITUTE	HD20002000
QU01		9965 000 03868	IC ML9205-01GA FL DRIVER	HC10039260
QU02		4822 209 32695	IC NJU3711D	HC10128090
QU03 ∫ QU06		4822 130 41947	TRS. 2SC536SP ETC	HT30001000
QU07		4822 130 63211	DIG.TRS. DTA114TS UN415	BA10004000
QU08		4822 130 41947	TRS. 2SC536SP ETC	HT30001000
QU09		4822 130 41947	TRS. 2SC536SP ETC	HT30001000
			PU04-MISCELLANEOUS	
SU01 ∫ SU26		9965 000 00373	PUSH SW. EVQ11L05R H/5MM 160GF	SP01013370
SU32		9965 000 01348	ROTARY SW. ROTALY ENCODER 36PULSE EC16B	SR02010070
SU33		9965 000 01349	ROTARY SW. ROT ENCOD EC16B 16PLS 16CLICK	SR02010080
VU01		9965 000 06299	DISPLAY UNIT 24-BT-12GN FL	HQ32401410

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PU74-STANDBY LED CIRCUIT BOARD	
CU71		4822 122 40617	CER. 0.1µF 50V URAZUKE	DD38104010
CU81		4822 122 40588	CER. 0.022µF TP050F223Z	DA17223110
CU82		4822 124 80087	ELECT. 220µF 6.3V	EJ22700610
DU71		4822 130 11569	L.E.D. HLMF-K200 #2UL RED H=9 3MM	HI10005340
RU71			RES. 680Ω ±5% 1/6W	GD05681160
			PU84-IR SENSOR CIRCUIT BOARD	
QU81		4822 209 16157	PHOTO UNIT PNA4655M00XB IR SENSOR	HW10005020
			PU94-GYRO ENCODER CIRCUIT BOARD	
CU91		4822 122 40617	CER. 0.1µF +80%-20% 50V DC	DD38104010
QU91		4822 130 11143	PHOTO UNIT GP1A06 2PHASE PHOTOINTERRUPTER	HW10033320
RU91			RES. 330Ω ±5% 1/6W	GD05331160
			PW04-HEADPHONE CIRCUIT BOARD	
			PW04-CAPACITORS	
CW01		4822 122 40586	CER. 0.01µF	DA17103110
CW02		4822 122 40586	CER. 0.01µF	DA17103110
CW03		4822 122 40617	CER. 0.1µF 50V	DD38104010
CW04		4822 122 40617	CER. 0.1µF 50V	DD38104010
			PW04-MISCELLANEOUS	
JW01	GOLD	4822 265 11525	JACK HLJ2307-01-3163 H.P.	YJ01004330
JW01	BLACK	4822 265 10685	JACK HLJ2307-01-3160 H.P.	YJ01004240
			PY04-U-COM CIRCUIT BOARD	
			PY04-CAPACITORS	
CY01		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CY02		4822 124 23056	ELECT. 47µ! 10V	EJ47601010
CY04		5322 126 11583	CER.CHIP 0.01µF ±10% B 25V	DK96103200
CY07		4822 126 13303	CER.CHIP 1µF 10V F	DK98105200
CY08		5322 126 11583	CER.CHIP 0.01µF ±10% B 25V	DK96103200
CY09		5322 126 11583	CER.CHIP 0.01µF ±10% B 25V	DK96103200
CY10		5322 126 11583	CER.CHIP 0.01µF ±10% B 25V	DK96103200
CY11		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CY12		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CY13		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CY19		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CY25		5322 126 11578	CER.CHIP 1000pF ±10% B 50V	DK96102300
CY26		4822 126 11687	CER.CHIP 0.1µF +80%-20%	DK98104200
CY30		4822 124 11879	BIG ELECT. 1F 5.5V DB-5R5D105	EX10500530
			PY04-RESISTORS	
RY01		4822 051 30479	CHIP 47Ω ±5% 1/16W	NN05470610
RY02		4822 116 83819	CHIP 18kΩ ±5% 1/16W	NN05183610
RY03		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RY04		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RY05		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RY06 ∫ RY11		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RY12		4822 051 30105	CHIP 1MΩ ±5% 1/16W	NN05105610
RY13		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RY14	/K,/F,/S	4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RY15	/K,/U	4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY16	/K,/N,/S	4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RY17	/U	4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY18	14A	4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RY19	/F	4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY19	18A	4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RY20	14A	4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RY21	/F	4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY21	18A	4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RY22	/N,/S	4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RY23	/K,/U	4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY24		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RY25		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RY27 ≀ RY31		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
RY32		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY33		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY34		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY35		4822 051 30221	CHIP 220Ω ±5% 1/16W	NN05221610
RY36		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY37		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY38 ≀ RY45		4822 051 30221	CHIP 220Ω ±5% 1/16W	NN05221610
RY46 ≀ RY56		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
RY57		4822 117 12925	CHIP 47kΩ ±5% 1/16W	NN05473610
RY58		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RY59		4822 051 30683	CHIP 68kΩ ±5% 1/16W	NN05683610
RY60		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RY64		4822 051 30273	CHIP 27kΩ ±5% 1/16W	NN05273610
RY65		4822 051 30221	CHIP 220Ω ±5% 1/16W	NN05221610
RY66		4822 051 30221	CHIP 220Ω ±5% 1/16W	NN05221610
RY67		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
RY68		4822 051 30273	CHIP 27kΩ ±5% 1/16W	NN05273610
RY69		4822 122 40617	CER. 0.1μF 50V URAZUKE	DD38104010
			PY04-SEMICONDUCTORS	
DY01		4822 130 80522	CHIP DIODE 1SS300 DAP202U	HZ21006000
DY02		4822 130 80522	CHIP DIODE 1SS300 DAP202U	HZ21006000
DY03		4822 130 83715	CHIP DIODE 1SS301 DAN202U	HZ21005000
DY04		4822 130 80522	CHIP DIODE 1SS300 DAP202U	HZ21006000
QY01		9965 000 06295	MICROPROCESSOR 16BIT TMP93CW40DF MAIN CPU	HU326JT00F
QY02		4822 130 41947	TRS. 2SC2458 2SC1740S 2SC3199 ETC	HT30001000
QY03		4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
QY04		4822 130 42594	DIG.TRS. DTC144ES UN4213 47K 47K	BA20002000
QY05		4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
QY06		4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
QY07		4822 130 60588	DIG.TRS. DTC114ES UN4211 10k 10k	BA20001000
QY08		4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
QY09		4822 130 60588	DIG.TRS. DTC114ES UN4211 10k 10k	BA20001000
QY10		4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
QY11		4822 130 41947	TRS. 2SC2458 2SC1740S 2SC3199 ETC	HT30001000
QY12		4822 130 41947	TRS. 2SC2458 2SC1740S 2SC3199 ETC	HT30001000
QY13		4822 130 60588	DIG.TRS. DTC114ES UN4211/KRC102M	BA20001000
QY14		4822 130 61227	DIG.TRS. DTA114ES UN4111 10k 10k	BA10001000
QY15		4822 209 12845	IC S-80730SN-DT-X RESET IC	HC10054530

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PY04-MISCELLANEOUS	
JY01			JACK 33PIN ANGLE FFC33FE-ST-VK-N	YJ07020290
XY01		9965 000 01346	SERAMIC VIB. CST20.00MXW0H1 / 20MHz+C	FQ02005030
			PY54-CONNECT CIRCUIT BOARD	
JY51			JACK 33FE-BT-VK-N 33PIN STRAIGHT	YJ07020660
JY53			JACK 33FE-BT-VK-N 33PIN STRAIGHT	YJ07020660
			PY64-CONNECT-0 CIRCUIT BOARD	
CY61		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
CY62		5322 124 21731	ELECT. 10μF M 50V	OA10605020
DY61		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
JY61			JACK 33PIN ANGLEB FFC33FE-ST-VK-N	YJ07020290
⚠ LY61		9965 000 01353	RELAY FTR-F1AA024T FOR FIL.SW	LY20240460
QY61		4822 130 60117	TRS. 2SC3419	HT334192A0
⚠ RY61		4822 115 90167	FUSE RES. 100Ω G 1/4W	NF02101140
RY62			RES. 10kΩ ±5% 1/6W	GD05103160
RY63			RES. 10kΩ ±5% 1/6W	GD05103160
			PZ04-S-VIDEO SELECTOR CIRCUIT BOARD PZ04-CAPACITORS	
CX01		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CX02		4822 122 31349	CER. 68pF J 50V	DD15680300
CX03	/K,/N,/S	5322 122 32143	CER. 22pF J 50V	DD15220300
CX04		4822 124 22275	ELECT. 47μ! M 10V RA-2	OA47601020
CX05		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
CX06		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
CX07		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CX08	/U	4822 126 10362	CER. 22pF J 50V	DA15220110
CX09		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CX10		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CX11		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CX12		4822 124 41537	ELECT. 220μF M 6.3V RA-2	OA22700620
CX13		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CX14		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CX15		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CX16 ≀ CX19		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
CX20		4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020
CX21			FILM 4700pF	DF15472350
CX22		4822 122 30043	CER. 0.01μF Z 50V	DK18103310
CX24		4822 124 41543	ELECT. 1μF 50V RA-2	OA10505020
CX25		4822 124 41537	ELECT. 220μF M 6.3V RA-2	OA22700620
CX31		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CX32		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CX33		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CX41 ≀ CX49		4822 126 11558	CER. 0.1μF 50V	DA17104110
CX92			CER. 1000pF K 50V	DK16102300
CX97		4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020
CX98		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020
CX99	/U	4822 126 10362	CER. 22pF	DA15220110
CZ01 ≀ CZ05		5322 124 21731	ELECT. 10μF M 50V RA-2	OA10605020

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CZ06 ~ CZ10		4822 124 11947	ELECT. 10µF 16V	EQ10601630
CZ11 ~ CZ25		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CZ26		4822 124 11947	ELECT. 10µ! 16V	EQ10601630
CZ27 ~ CZ33		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CZ34		9965 000 01040	ELECT. 470µF M 6.3V RA-2	OA47700620
CZ35 ~ CZ42		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CZ43	/K,/N,/S	4822 126 10362	CER. 22pF	DA15220110
CZ44	/K,/N,/S	4822 126 10362	CER. 22pF	DA15220110
CZ44	/U	4822 122 33638	CER. 27pF	DA15270110
CZ45	/K,/N,/S	4822 126 11553	CER. 15pF	DA15150120
CZ46		4822 126 11591	CER. 24pF J CH 50V BLK	DD15240300
CZ47		4822 126 10362	CER. 22pF	DA15220110
CX98			CER. 1200pF K 50V	DK16122300
CZ49		4822 124 41543	ELECT. 1µF M 50V RA-2	OA10505020
CZ50		4822 122 40617	CER. 0.1µF 50V	DD38104010
CZ51		4822 124 41537	ELECT. 220µF M 6.3V RA-2	OA22700620
CZ52		4822 124 41543	ELECT. 1µF M 50V RA-2	OA10505020
CZ55 ~ CZ60		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CZ61		9965 000 01040	ELECT. 470µF M 6.3V RA-2	OA47700620
CZ62		9965 000 01040	ELECT. 470µF M 6.3V RA-2	OA47700620
CZ63		9965 000 01040	ELECT. 470µF M 6.3V RA-2	OA47700620
CZ65		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CZ66		4822 124 41537	ELECT. 220µF M 6.3V	OA22700620
CZ67		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CZ68		4822 124 41537	ELECT. 220µF M 6.3V RA-2	OA22700620
CZ69 ~ CZ77		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CZ78		4822 124 41537	ELECT. 220µF M 6.3V RA-2	OA22700620
CZ80		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CZ81		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CZ82		9965 000 01040	ELECT. 470µF M 6.3V RA-2	OA47700620
CZ83		4822 124 11947	ELECT. 10µ! 16V	EQ10601630
CZ84		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CZ85		9965 000 01040	ELECT. 470µF M 6.3V RA-2	OA47700620
CZ86		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CZ87		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CZ88		5322 124 21731	ELECT. 10µF M 50V RA-2	OA10605020
CZ89 ~ CZ92		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CZ93		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CZ94		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
CZ95		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CZ97		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CZ98		4822 122 30043	CER. 0.01µF Z 50V	DK18103310
			PZ04-RESISTORS	
⚠ RX11		4822 050 21801	RES. 180Ω ±5% 1/4W	GG05181140
RX31		4822 111 41355	RES. 75Ω ±5% 1/6W	GD05750160
RX32		4822 111 41355	RES. 75Ω ±5% 1/6W	GD05750160
RX33		4822 111 41355	RES. 75Ω ±5% 1/6W	GD05750160
RZ06 ~ RZ11		4822 111 41355	RES. 75Ω ±5% 1/6W	GD05750160
RZ12 ~ RZ15		4822 111 41355	RES. 75Ω ±5% 1/6W	GD05750160

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RZ24 ~ RZ29		4822 111 41355	RES. 75Ω ±5% 1/6W	GD05750160
RZ61			JUMPER	
RZ62			JUMPER	
RZ63			JUMPER	
RZ65			JUMPER	
			PZ04-RESISTORS (COMMON)	
R***			CARBON FILM FIXED RES. ±5% 1/6W : RX01-RX10 RX12-RX22 RX24-RX29 RZ01-RZ05 RZ16-RZ20 RZ30-RZ35 RZ42-RZ48 RZ50-RZ54 RZ56-RZ60 RZ67	
			PZ04-SEMICONDUCTORS	
DX01		4822 130 80321	ZENER DIODE 10V	HD31001000
DZ01 ~ DZ03		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DZ05		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DZ19		9965 000 01374	ZENER DIODE MTZ 2.7B 2.7V	HD30271000
DZ21		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DZ22		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
QX01 ~ QX04		4822 130 41947	TRS. 2SC536SP ETC	HT30001000
QX05	/K,/N,/S	4822 130 63211	DIG.TRS. DTA114TS UN4115 10k	BA10004000
QX07		4822 130 60588	DIG.TRS. DTC114ES UN4211 10k 10k	BA20001000
QZ01		9965 000 01371	IC MM1140XF	HC10083550
QZ02		4822 209 32928	IC BA7612N	HC10201210
QZ03		9965 000 01371	IC MM1140XF	HC10083550
QZ04		4822 209 32928	IC BA7612N	HC10201210
QZ05		9965 000 01372	IC BA7649A G-1 VIDEO SW	HC10179210
QZ06		4822 209 31527	IC BA7613N	HC10202210
QZ07		9965 000 01372	IC BA7649A G-1 VIDEO SW	HC10179210
QZ08		4822 209 32928	IC BA7612N	HC10201210
QZ09		4822 209 32246	IC NJM2244 3IN SW 75Ω DRIVER	HC10119090
QZ10		9965 000 01379	IC NJM2263D	HC10198090
QZ11		4822 209 15524	IC LC74781 OSD	HC10377030
QZ12	/K,/N,/S	4822 130 61227	DIG.TRS. DTA114ES ETC	BA10001000
QZ13	/K,/N,/S	4822 130 61189	DIG.TRS. DTC114TS UN4215 10k	BA20004000
QZ14	/K,/N,/S	4822 130 61189	DIG.TRS. DTC114TS UN4215 10k	BA20004000
QZ16		4822 209 31527	IC BA7613N	HC10202210
QZ17		4822 209 31527	IC BA7613N	HC10202210
QZ18		4822 209 31527	IC BA7613N	HC10202210
QZ19		4822 209 32246	IC NJM2244 3IN SW 75Ω DRIVER	HC10119090
QZ20		9965 000 01379	IC NJM2263D	HC10198090
QZ21		9965 000 06284	DIG.TRS. DTC144VSA 47k 10k	BA20068210
QZ22		9965 000 01380	IC 74HC4051 DIP	HC705100B0
QZ23		4822 209 83088	IC NJM2903D DUAL COMPARATOR	HC10022090
QZ24		4822 130 61227	DIG.TRS. DTA114ES ETC	BA10001000
QZ25		4822 130 61227	DIG.TRS. DTA114ES ETC	BA10001000
QZ26		4822 130 41947	TRS. 2SC2458 2SC1740S 2SC3199 ETC	HT30001000
QZ27		4822 130 60588	DIG.TRS. DTC114ES UN4211 10k 10k	BA20001000

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
QZ28		9965 000 01381	IC 74HC32 DIP	HC703200B0
QZ29		5322 209 71773	IC TC74HC132AP	HC713205D0
			PZ04-MISCELLANEOUS	
JZ01		9965 000 01375	TERMINAL 3P S-TERM.GOLD	YT02030550
JZ02		9965 000 01376	TERMINAL 2P S-TERM.GOLD	YT02021520
JZ03		9965 000 01375	TERMINAL 3P S-TERM.GOLD	YT02030550
JZ04		9965 000 01377	TERMINAL 6P RCA COMP.VIDEO GOLD G/B/R	YT02060640
JZ05		9965 000 01377	TERMINAL 6P RCA COMP.VIDEO GOLD G/B/R	YT02060640
LX01		4822 157 62909	CHOKE COIL 22µH	LC12233800
LZ01		4822 157 62922	CHOKE COIL CHOKE 33µH J	LC13333800
LZ02		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
LZ03		4822 242 73843	EMI FILTER DSS306-91-F-233Z	FM12223010
XZ01	/K. /N /S	4822 242 73903	CRYSTAL AT49 17.7MHz	JX17001260
XZ02		4822 242 80288	CRYSTAL AT49 14.31818MHz	JX14001260